PS-LX510

SERVICE MANUAL

US Model
Canadian Model
AEP Model
E Model

SILVER MODEL SHOWN

SPECIFICATIONS

Turntable

Platter	30 cm (12 in.), aluminum-alloy diecast
Motor	Linear torque BSL (brushless and slotless) motor
Drive system	Direct drive
Control system	Quartz lock servo control system
Speed	33⅓ rpm, 45 rpm
Wow and flutter	0.03% (WRMS)*, 0.035% (WRMS) ±0.045% (DIN)
Signal-to-noise ratio	75 dB (DIN-B)
Automatic system	Lead-in, return, repeat, reject, up/down, record size selection
Load characteristics	0% up to 1.5g tracking force (at lead-in groove of a record)
Speed deviation	Within ± 0.003%

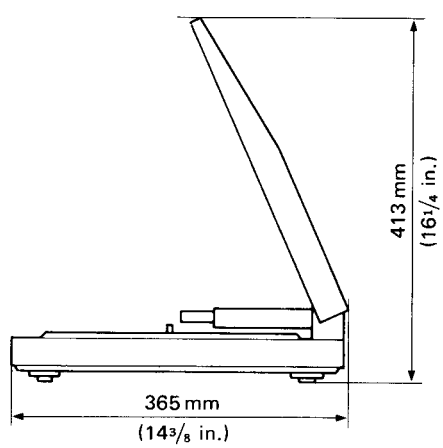
Tonearm

Type	Linear tracking tonearm
Pivot-to-stylus length	75 mm (3 in.)
Tracking error	±0.1°
Tracking force adjustment range	±0.25 g
Usable cartridge	plug-in type, 6 g

General

Power requirements	120 V ac, 60 Hz (US, Canadian model) 220 V ac, 50/60 Hz (AEP model) 110 – 220 V, 120 – 240 V ac, 50/60 Hz (E model)
Power consumption	10 W
Dimensions	Approx. 430 x 90 x 356 mm (w/h/d) (16 15/16 x 3 5/8 x 14 in.) including projecting parts and controls

With the dust cover opened.



– Continued on page 2 –

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY SHADING AND MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

LES COMPOSANTS IDENTIFIÉS PAR UNE TRAME ET UNE MARQUE ⚠ SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

STEREO TURNTABLE SYSTEM

SONY®

MICROFILM

AUD

Weight	Approx. 5 kg (11 lbs 0 oz), net Approx. 6.1 kg (13 lbs 7 oz), in shipping carton

Design and specifications subject to change without notice.

* This new measuring method concerns only the turntable assembly, including the platter. It excludes wow and flutter caused by the tonearm, the cartridge, or the record. Measured by obtaining signal from magnetic pick-up head.

Cartridge VL-45G
(supplied only with Canadian and partial US model)

Type	Moving magnet
Frequency Response:	10 Hz – 20 kHz
Channel Separation:	23 dB at 1 kHz
Output Voltage:	5 mV at 1 kHz, 5 cm/sec., 45°
Load Impedance:	50 kΩ – 100 kΩ
Tracking Force:	1.0 – 1.5 g (1.25 g recommended)
Stylus:	Sony ND-145G
Weight:	6 g

Cartridge XL-250G (supplied only with AEP, E model)

Type:	Moving magnet
Frequency Response:	10 Hz – 20 kHz
Channel Separation:	23 dB at 1 kHz
Output Voltage:	5 mV at 1 kHz, 5 cm/sec., 45°
Load Impedance:	50 kΩ – 100 kΩ
Tracking Force:	1.0 – 1.5 g (1.25 g recommended)
Stylus:	Sony ND-250G
Weight:	6 g

FEATURES

Linear tracking tonearm
Compared with a pivoted tonearm, a linear tracking arm has a very small tracking error (which means greatly reduced harmonic distortion) and almost no pressure on the inside wall of the groove of records (which means improved trackability and channel separation).

Front panel operation with the dust cover closed
The ARM TRANSPORT buttons allow you to move the tonearm easily over the desired point of the record with the dust cover closed.
Start/stop of the record play and tonearm up/down can also be controlled using the buttons on the front panel.

Fully automatic system
The movement of the turntable and the tonearm is controlled by a microcomputer and is activated by the "feather-touch" function buttons on the front panel.

Automatic record size selection
The record size is automatically set by a photo sensor system. If no record is on the turntable, the tonearm will not descend but will automatically return to the tonearm resting position.

Muting system
A muting system activates when the tonearm is lifted and is deactivated after the tonearm lowers onto a record so there is no need to turn the amplifier volume down every time a stylus is placed on a record.

Quartz lock servo system
The turntable maintains an accurate and drift-free speed by referring to a frequency generated by a very stable quartz oscillator.

Linear torque BSL motor
Direct drive system with Sony's unique BSL (brushless and slotless) motor which has an extremely low noise level and whose smoothness virtually eliminates wow and flutter. Its high torque assures a quick start to 33 1/3 rpm after only a half revolution.

Synchronized operation with the Sony cassette decks
When the tonearm lowers onto the lead-in groove of a record, the cassette deck stand-by mode is released and the record mode assumed. This synchronized operation is possible with Sony cassette decks equipped with a four-pin remote control jack which is connected with the Sony RM-65 synchro remote control unit.

SAFETY CHECK-OUT (US Model)

After correcting the original service problem, perform the following safety check before releasing the set to the customer:
Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microampers). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2 V AC range are suitable. (See Fig. A)

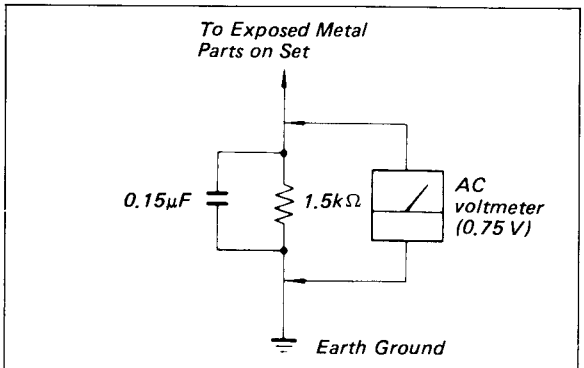
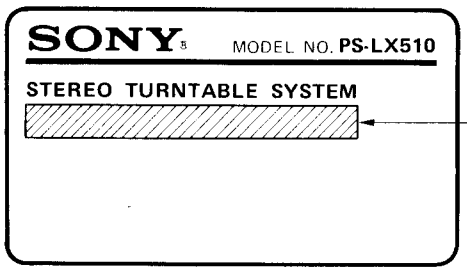


Fig. A. Using an AC voltmeter to check AC leakage.

MODEL IDENTIFICATION

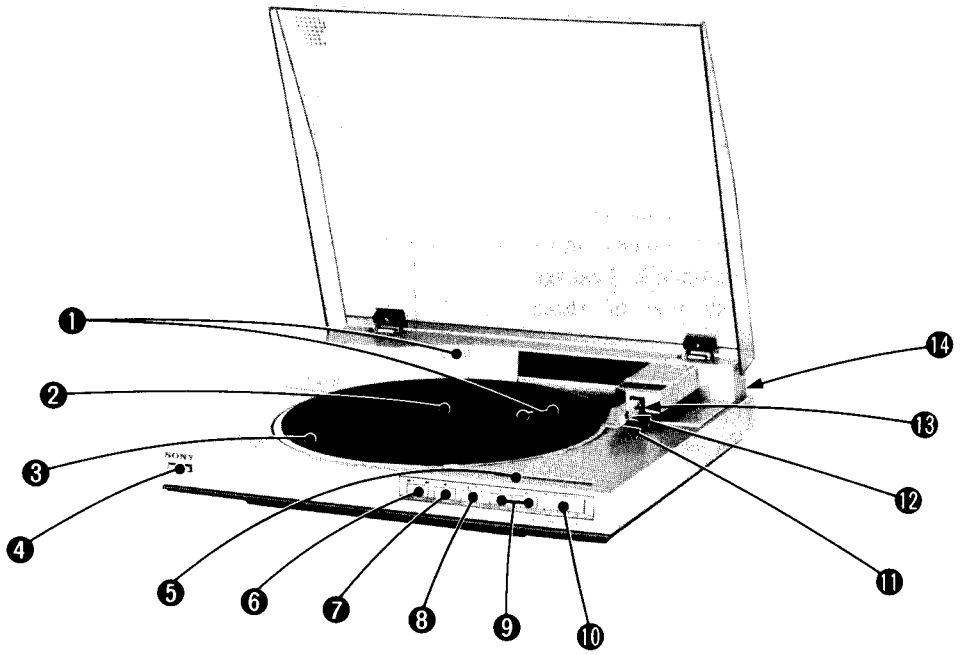
– Specification Label –



US, Canadian	:	AC: 120 V ~ 60 Hz 10 W
AEP	:	AC: 220 V ~ 50/60 Hz 10 W
E	:	AC: 110 – 220 V, 220 – 240 V ~ 50/60 Hz 10 W

LOCATION AND FUNCTION OF CONTROLS

The photo shows the assembled turntable.
Each number in the text is keyed to that of the photo.



1 Auto-record-size selection holes and lamp

2 Center spindle

3 Rubber matspeed which indicates some trouble.

4 POWER switch
Press to turn on the turntable. To turn the turntable off, press it again.

5 QUARTZ LOCK indicator
The indicator illuminates in green when the turntable rotations is locked to the nominal speed by the quartz lock control system. The indicator goes out when the turntable rotations is out of the nominal speed which indicates some trouble.

6 SPEED selector and indicators
Selects the record speed. When the POWER switch is turned on, the speed is always $33\frac{1}{3}$ rpm and the indicator on the right illuminates. When the selector is pressed. 45 rpm is selected and the indicator on the left illuminates.

7 REPEAT button and indicator
Press this button to repeat play. The indicator illuminates and repeat play continues until this button is pressed to stop it. If the START/STOP button is pressed during repeat play, the tonearm returns to the tonearm resting position and the turntable stops rotating.

8 ARM LIFTER button
This button lifts and lowers the tonearm.
When the tonearm is on the tonearm resting position, it cannot be lifted up with this button.

9 ARM TRANSPORT buttons
To move the tonearm inwards, press the ◀ button. To move it outwards press the ▶ button. The tonearm is raised automatically and continues to move while the button is depressed. The tonearm will stop when the button is released. For fine adjustment of the tonearm drop-point over a record, press and immediately release the appropriate button. This button is useful for beginning a record partway through, or for skipping to another selection.

10 START/STOP button and indicator
Press this button to start the record playing, and the indicator illuminates. To stop during play, press it again.

11 Cartridge

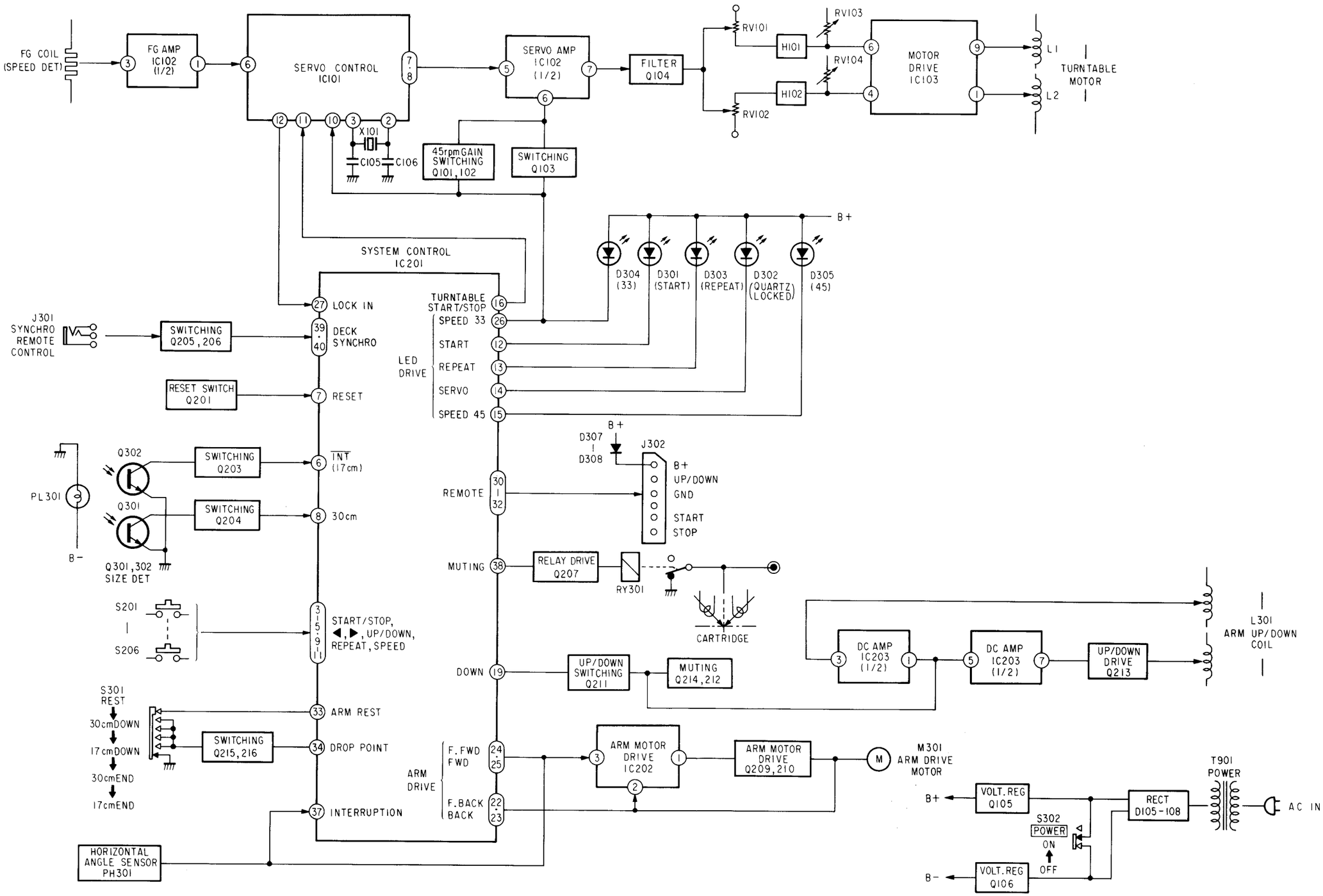
12 Cartridge locking screw

13 Tracking force adjustment lever

14 Synchro remote control jack (rear)
Synchronized recording from disc to tape is possible on specified Sony cassette decks by using the optional RM-65 synchro remote control unit.

SECTION 1
OUTLINE

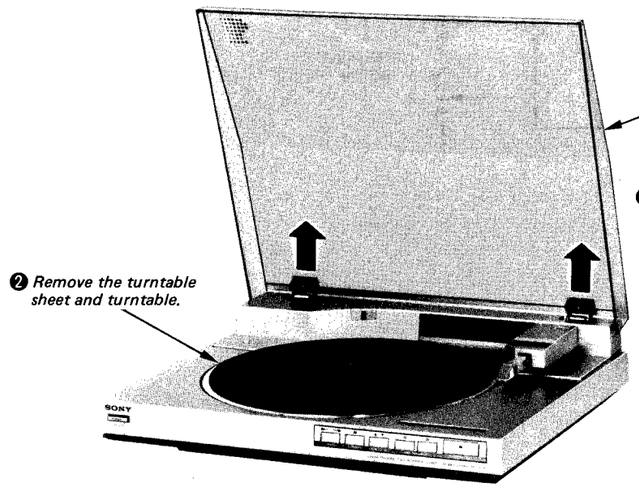
1-1. BLOCK DIAGRAM



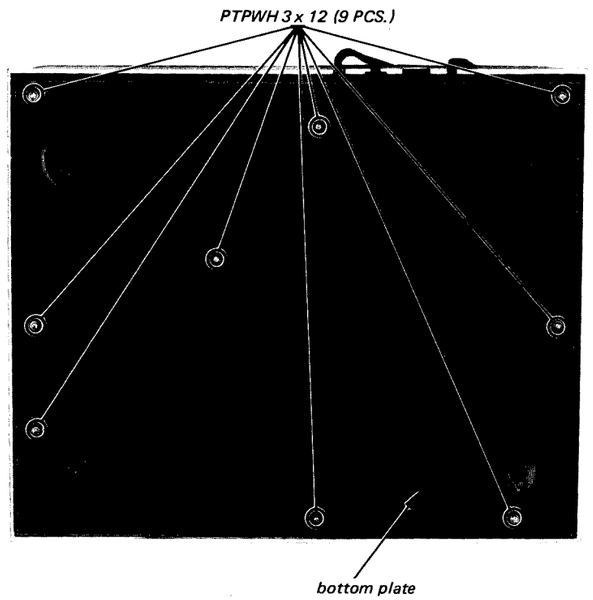
SECTION 2
DISASSEMBLY

2-1. REMOVAL **Note:** Follow the disassembly procedure in the numerical order given.

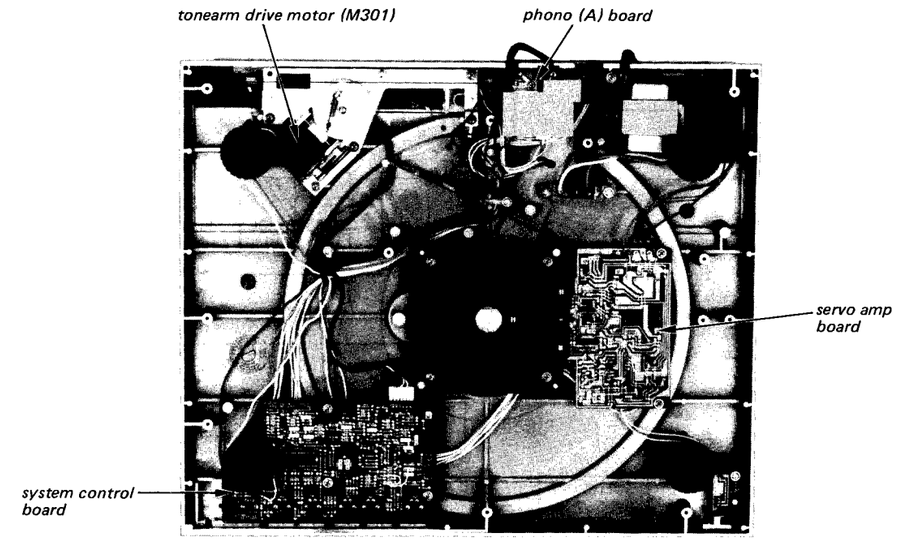
DUST COVER/TURNTABLE



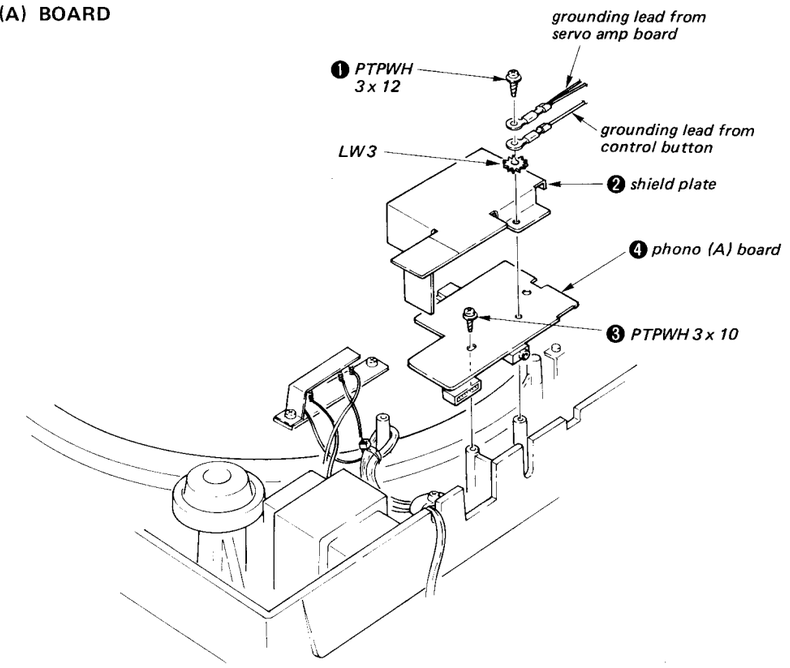
BOTTOM PLATE



— With bottom plate removed —

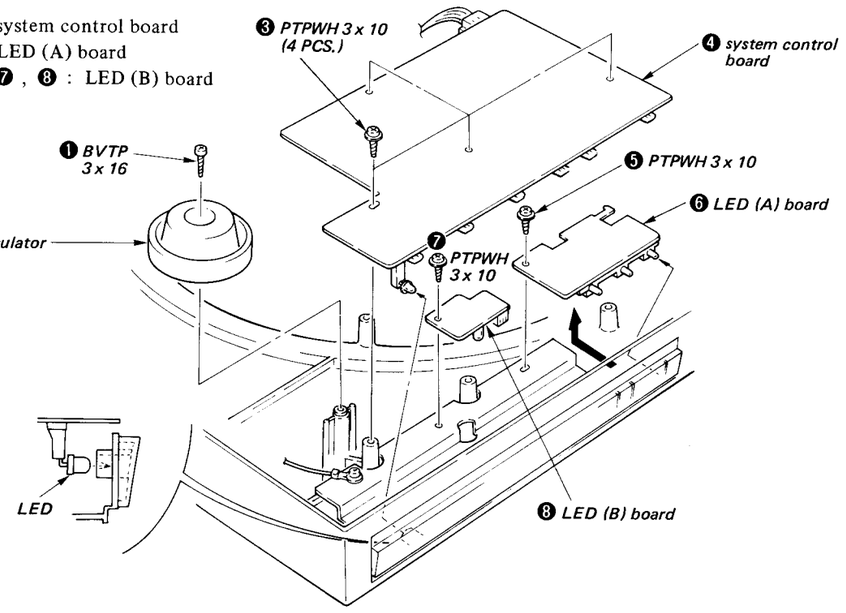


PHONO (A) BOARD

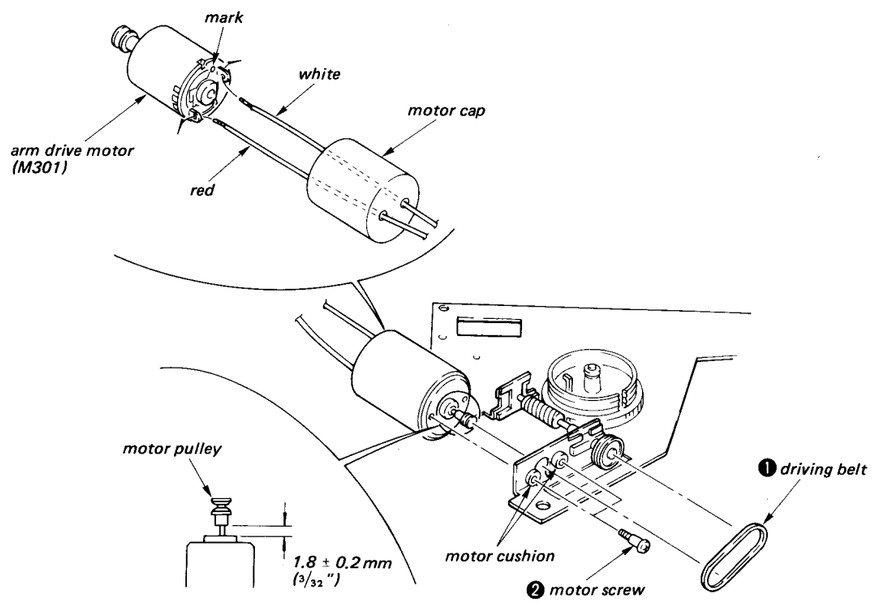

grounding lead from servo amp board
❶ PTPWH 3 x 12
grounding lead from control button
LW3
❷ shield plate
❹ phono (A) board
❸ PTPWH 3 x 10

SYSTEM CONTROL/LED (A), (B) BOARDS

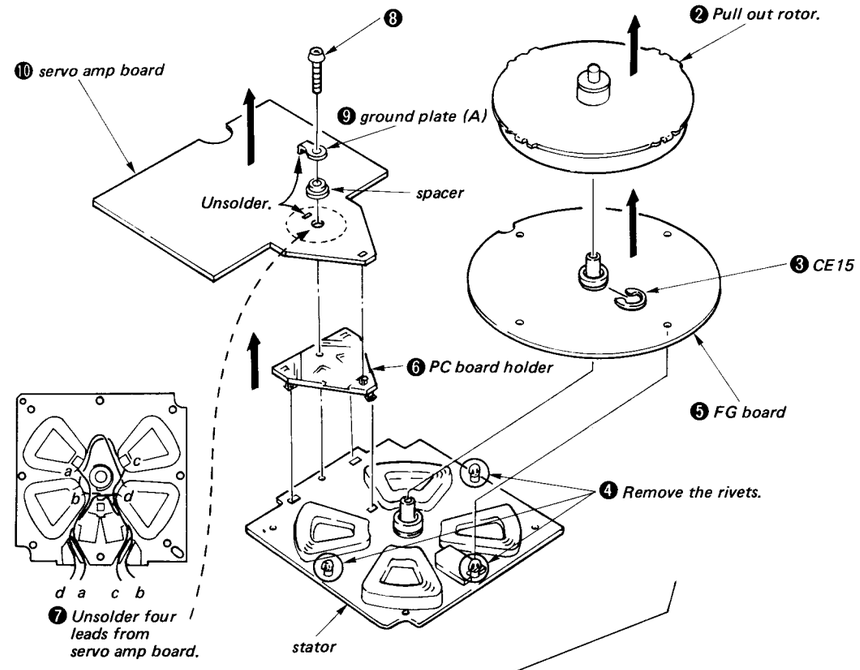
❶ – ❹ : system control board
❶ – ❻ : LED (A) board
❶ – ❹ , ❼ , ❽ : LED (B) board

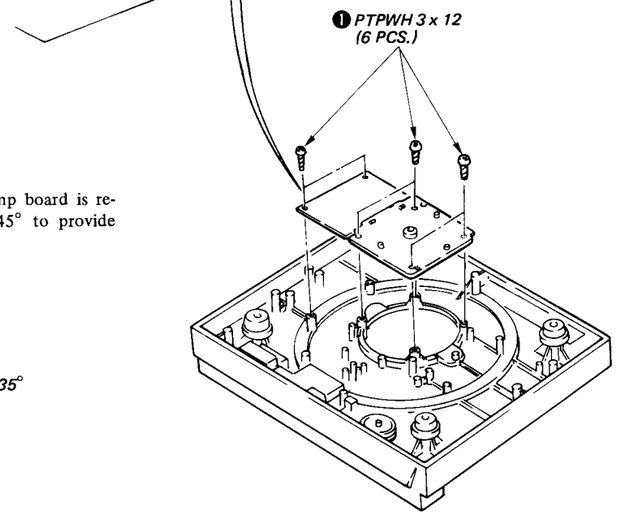


TONEARM DRIVE MOTOR (M301)

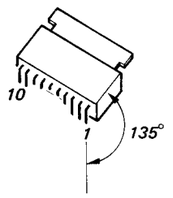


ROTOR/STATOR/FG BOARD/SERVO AMP BOARDS



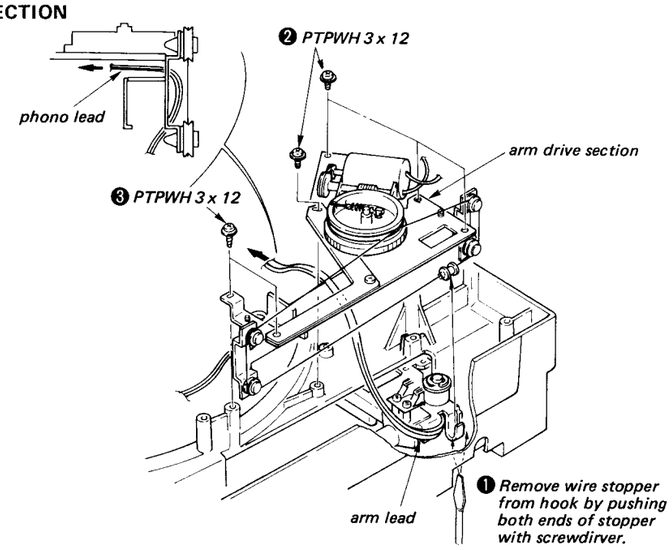


Note: When IC103 on servo amp board is replaced, bend its leads 45° to provide clearance between frame.



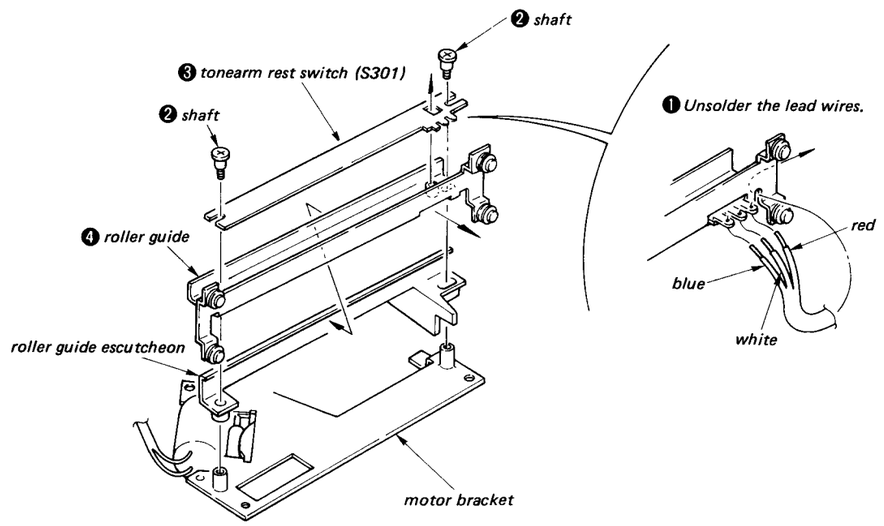
Remove the bottom plate.
(See page 7.)

TONEARM DRIVE SECTION

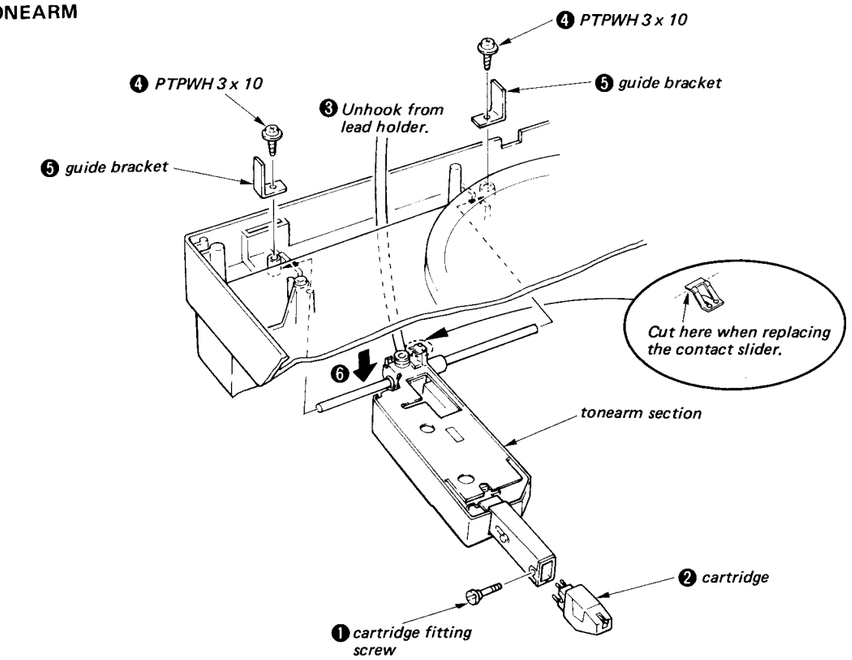

❷ PTPWH 3 x 12
phono lead
arm drive section
❸ PTPWH 3 x 12
arm lead
❶ Remove wire stopper from hook by pushing both ends of stopper with screwdirver.

TONEARM DRIVE CORD STRINGING
(See page 15.)

TONEARM REST SWITCH (S301)/ROLLER GUIDE

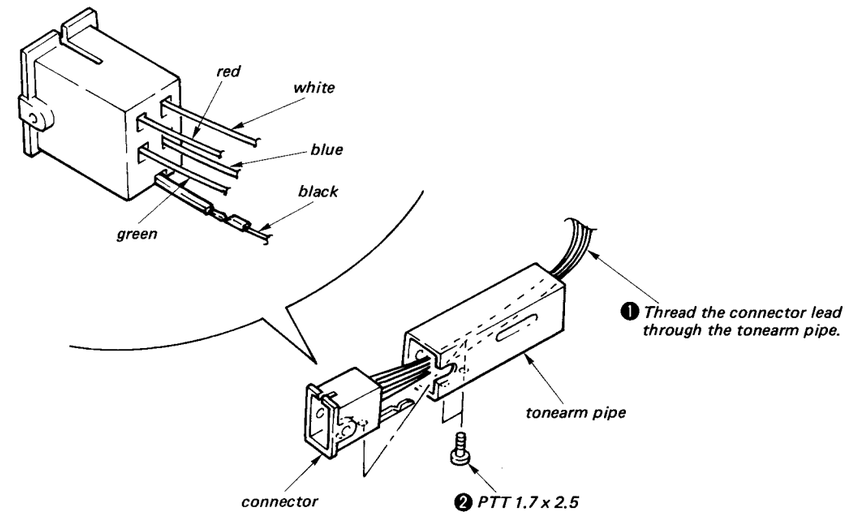


TONEARM

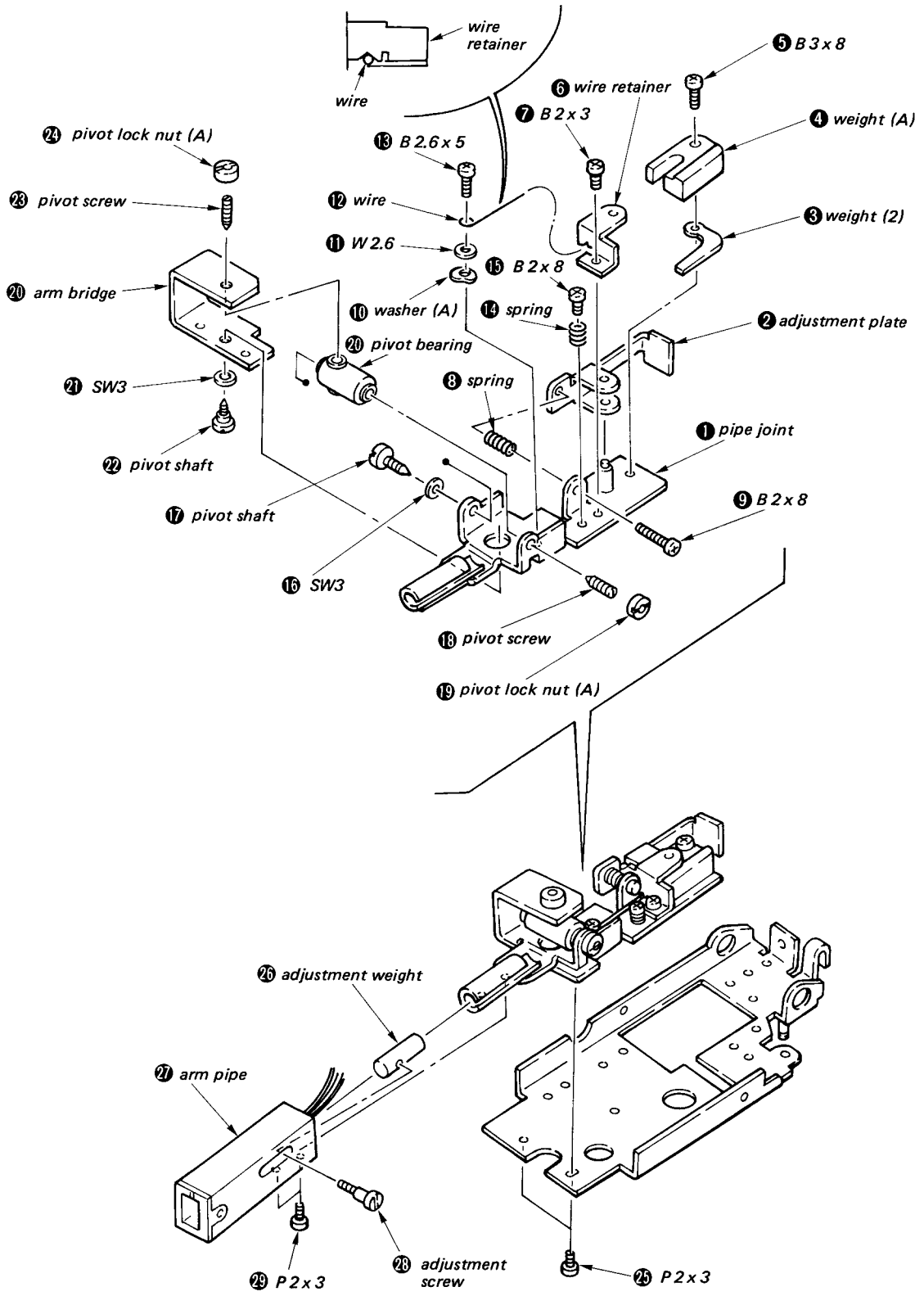


2-2. TONEARM ASSEMBLING

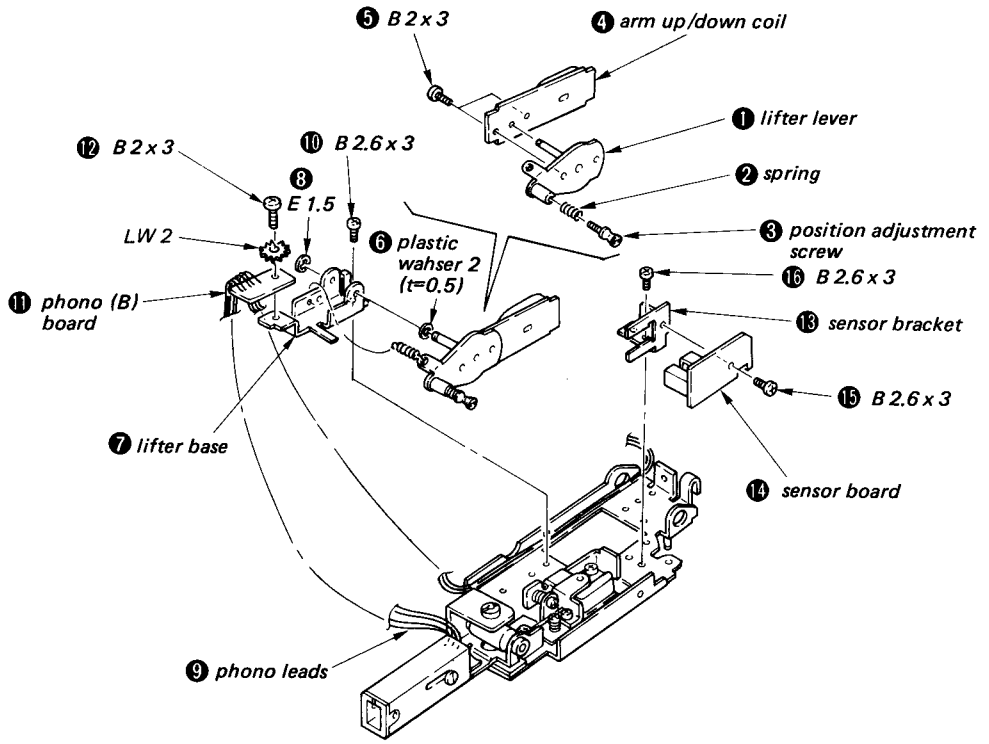
TONEARM ASSEMBLING (1)



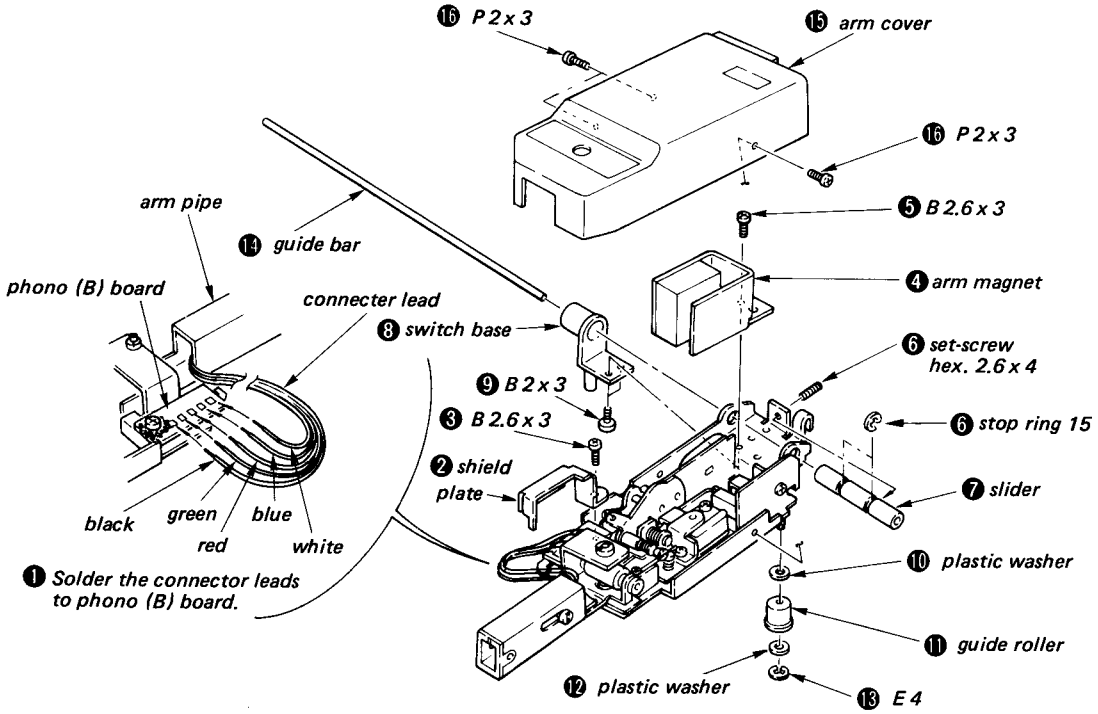
TONEARM ASSEMBLING (2)



TONEARM ASSEMBLING (3)

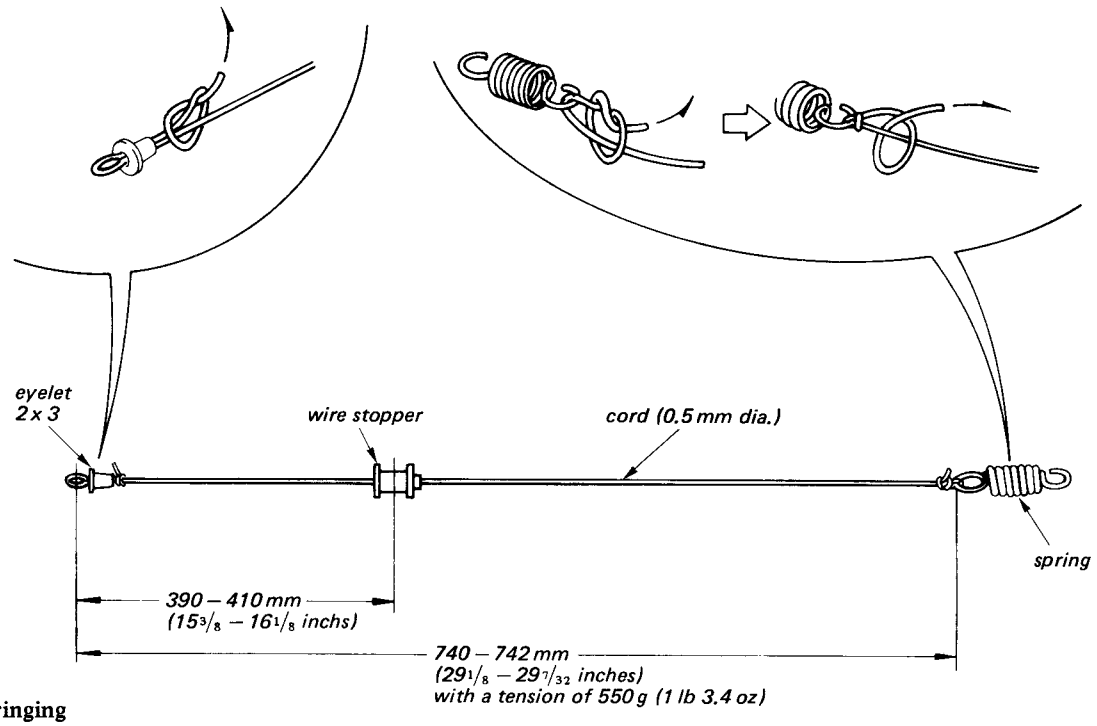


TONEARM ASSEMBLING (4)

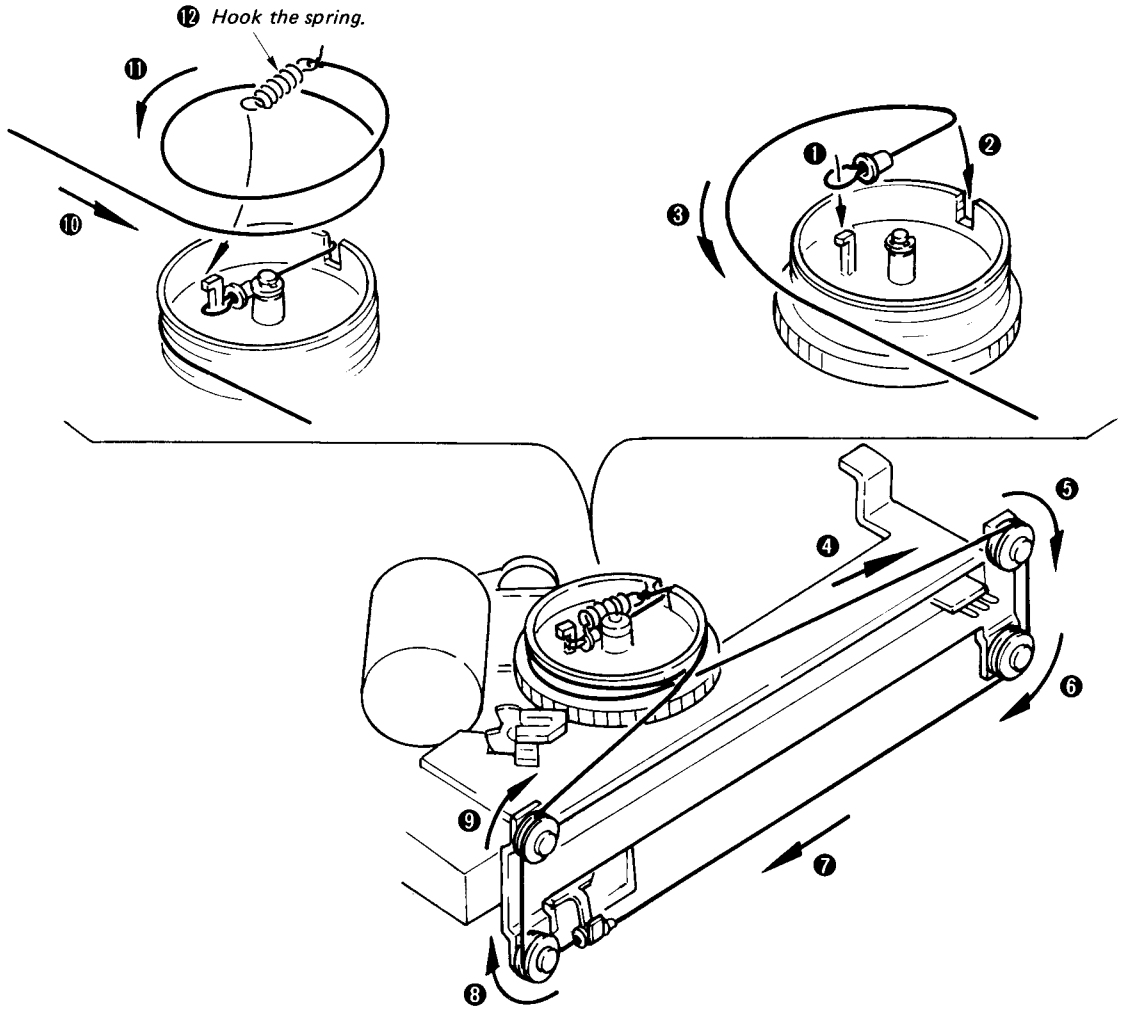


2-3. TONEARM DRIVE CORD STRINGING

(1) Preparation


eyelet
2 x 3
wire stopper
cord (0.5 mm dia.)
spring
390 – 410 mm
(15 3/8 – 16 1/8 inches)
740 – 742 mm
(29 1/8 – 29 7/32 inches)
with a tension of 550 g (1 lb 3.4 oz)

(2) Stringing

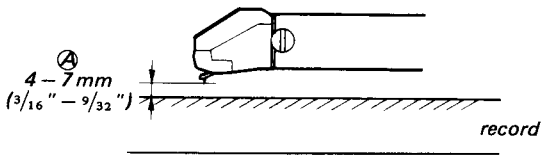


SECTION 3
ADJUSTMENTS

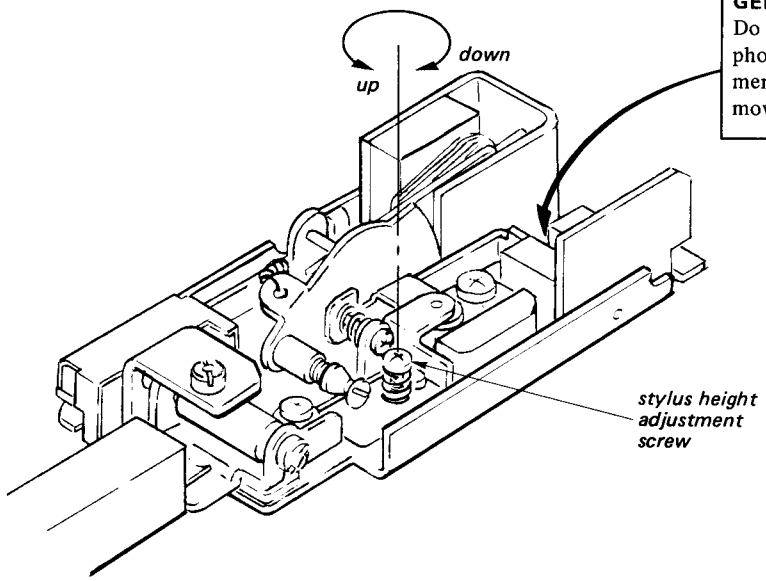
3-1. MECHANICAL ADJUSTMENTS

Stylus Height Adjustment

1. Put a record.
2. Press ARM TRANSPORT button (◄) and move the arm outside the record.
3. Make sure that clearance Ⓐ is 4 – 7 mm ($^3/_{16}$ – $^9/_{32}$ inches). If necessary, adjust the stylus height adjustment screw.

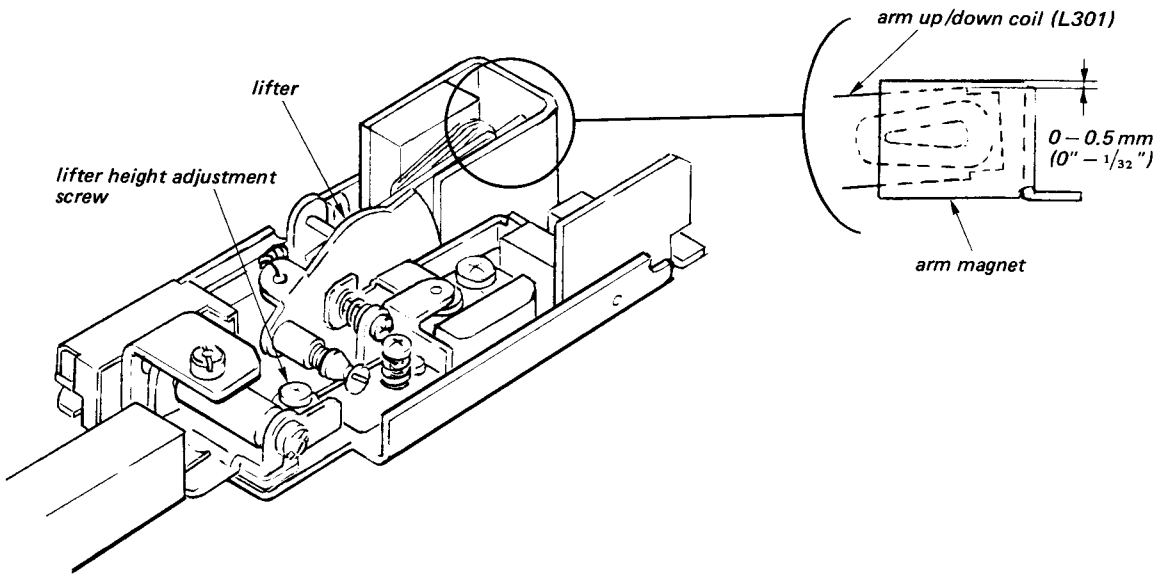


GENERAL NOTE:
Do not let a strong light get in the groove of photo interruptor during mechanical adjustment. Otherwise, misoperation of stoppage or moving may occur to the tonearm base.



Lifter Height Adjustment

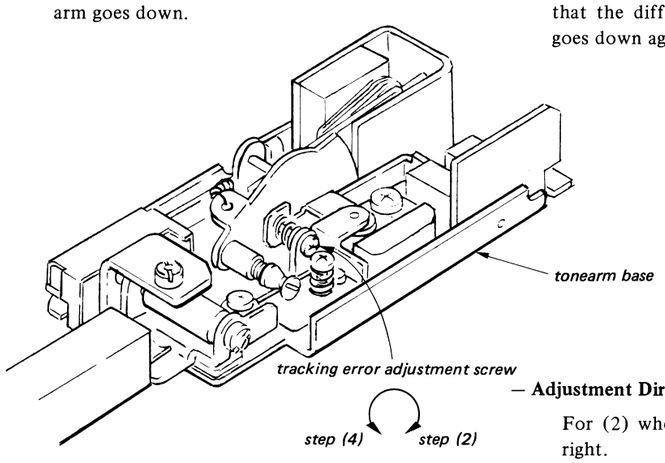
Adjust the lifter height adjustment screw so that the arm up/down coil position is 0 – 0.5 mm (0" – $^1/_{32}$") as shown below.



Tracking Error Adjustment

(1) Place a test record (YFSC-16) on the turntable and press the START/STOP button for lead-in.

(2) Adjust with the adjustment screw so that the tonearm base does not move just after the tonearm goes down.



(3) After completing step (2), cause the tonearm to lead in, and then go UP after the tonearm base moves.

(4) Check the count at this time, and then check that the difference in count when the tonearm goes down again is within 5 counts.

– Adjustment Direction –

For (2) when the arm base moves, turn to the right.

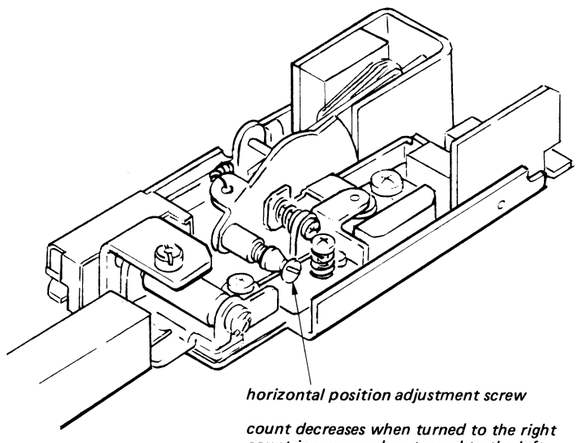
For (4) when the difference in count is too large, turn to the left.

Drop Point (30 cm) Adjustment

(1) Place a test record (YFSC-16) on the turntable and press the START/STOP button for lead-in.

(2) Adjust the horizontal position adjustment screw so that the drop point at this time is within the specification.

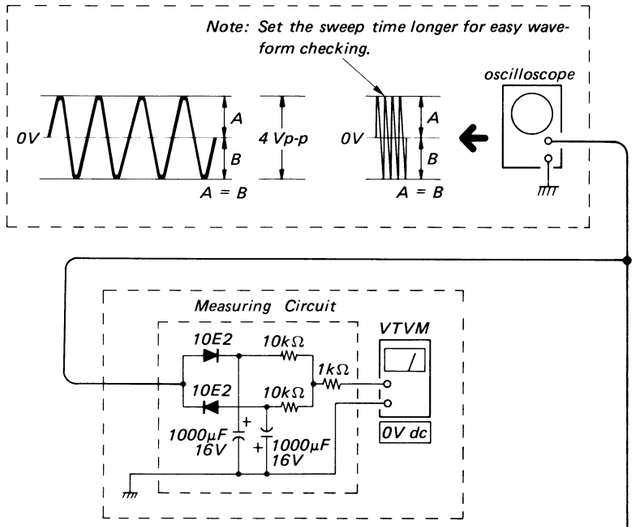
Specification: 9 – 14 counts


horizontal position adjustment screw
count decreases when turned to the right
count increases when turned to the left

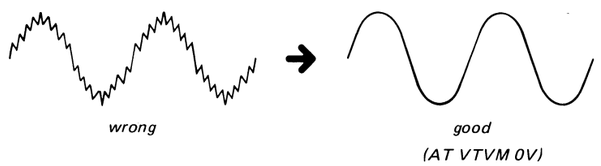
3-2. ELECTRICAL ADJUSTMENT

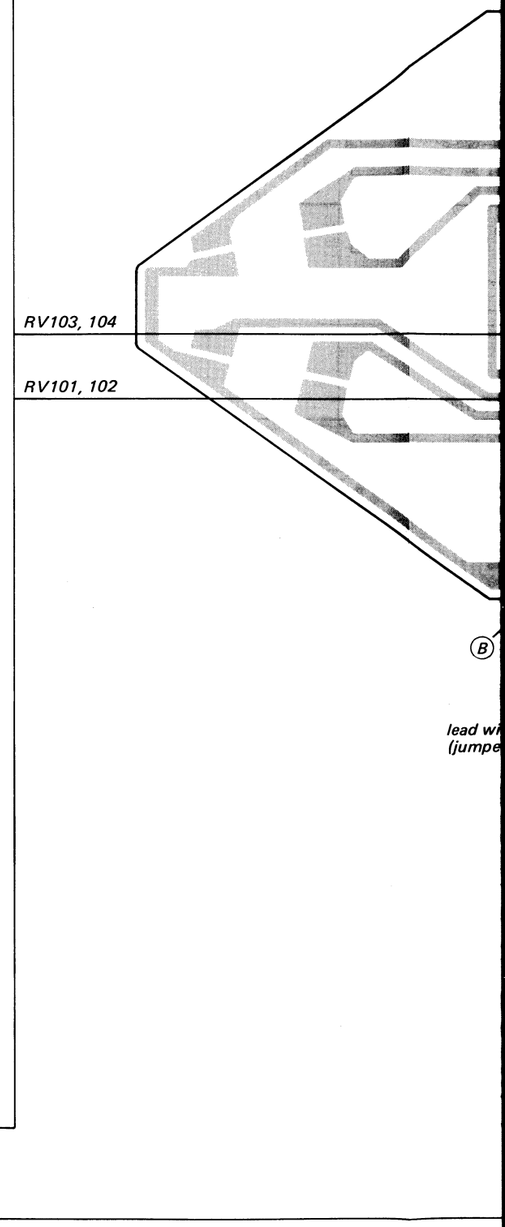
Gain/Offset Adjustment

1. Connect the pattern Ⓐ to Ⓑ, and apply regulated power supply (0V DC) to point Ⓒ.
2. Connect a VOM to the emitter of Q104, and adjust the regulated power supply voltage for 1V DC.
3. Adjust RV101 (H1) and RV102 (H2) so that the terminal voltage of IC103 ⑨ (H1) and ① (H2) are 4Vp-p. . . . . Gain Adjustment
4. Adjust RV103 (H1) and RV104 (H2) so that the terminal waveforms of IC103 ⑨ (H1) and ① (H2) are as shown below (or so that DC potential is 0V). . . . . Offset Adjustment
5. After adjustment, remove the lead wire connecting pattern Ⓐ to Ⓑ.



Ofset Adjustment

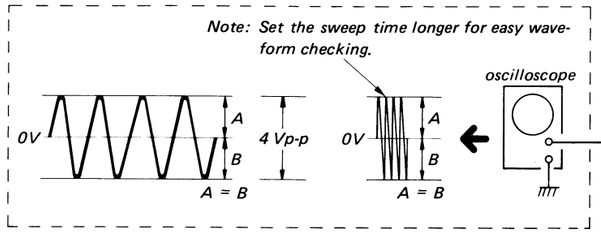


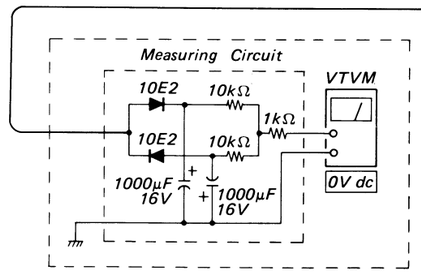


3-2. ELECTRICAL ADJUSTMENT

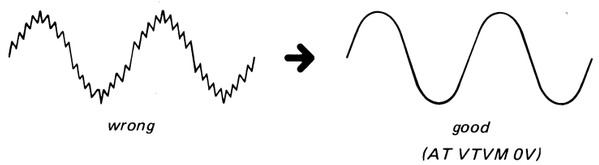
Gain/Offset Adjustment

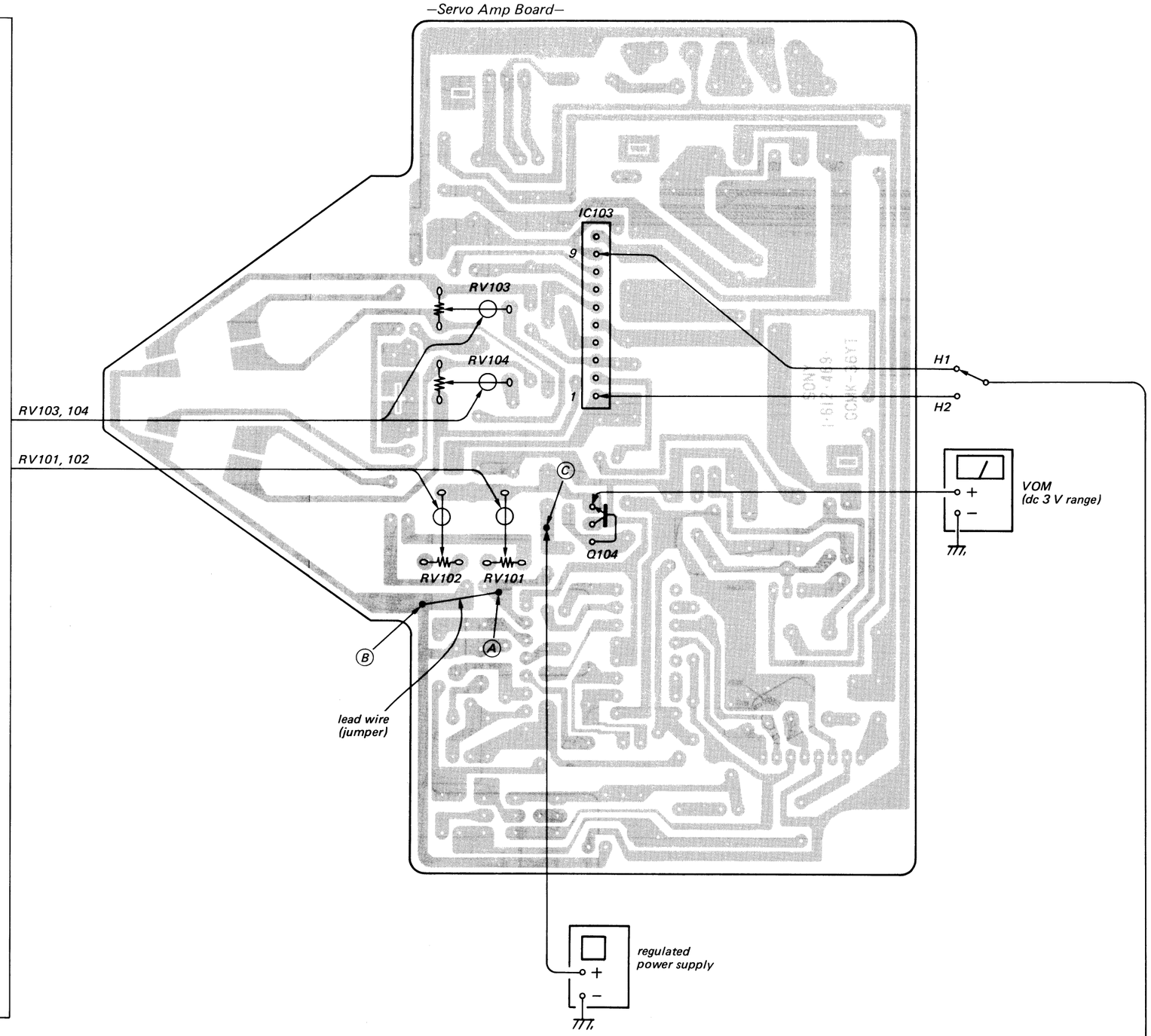
1. Connect the pattern Ⓐ to Ⓑ, and apply regulated power supply (0V DC) to point Ⓒ.
2. Connect a VOM to the emitter of Q104, and adjust the regulated power supply voltage for 1V DC.
3. Adjust RV101 (H1) and RV102 (H2) so that the terminal voltage of IC103 ⑨ (H1) and ① (H2) are 4Vp-p. . . . . Gain Adjustment
4. Adjust RV103 (H1) and RV104 (H2) so that the terminal waveforms of IC103 ⑨ (H1) and ① (H2) are as shown below (or so that DC potential is 0V). . . . . Offset Adjustment
5. After adjustment, remove the lead wire connecting pattern Ⓐ to Ⓑ.





Ofset Adjustment

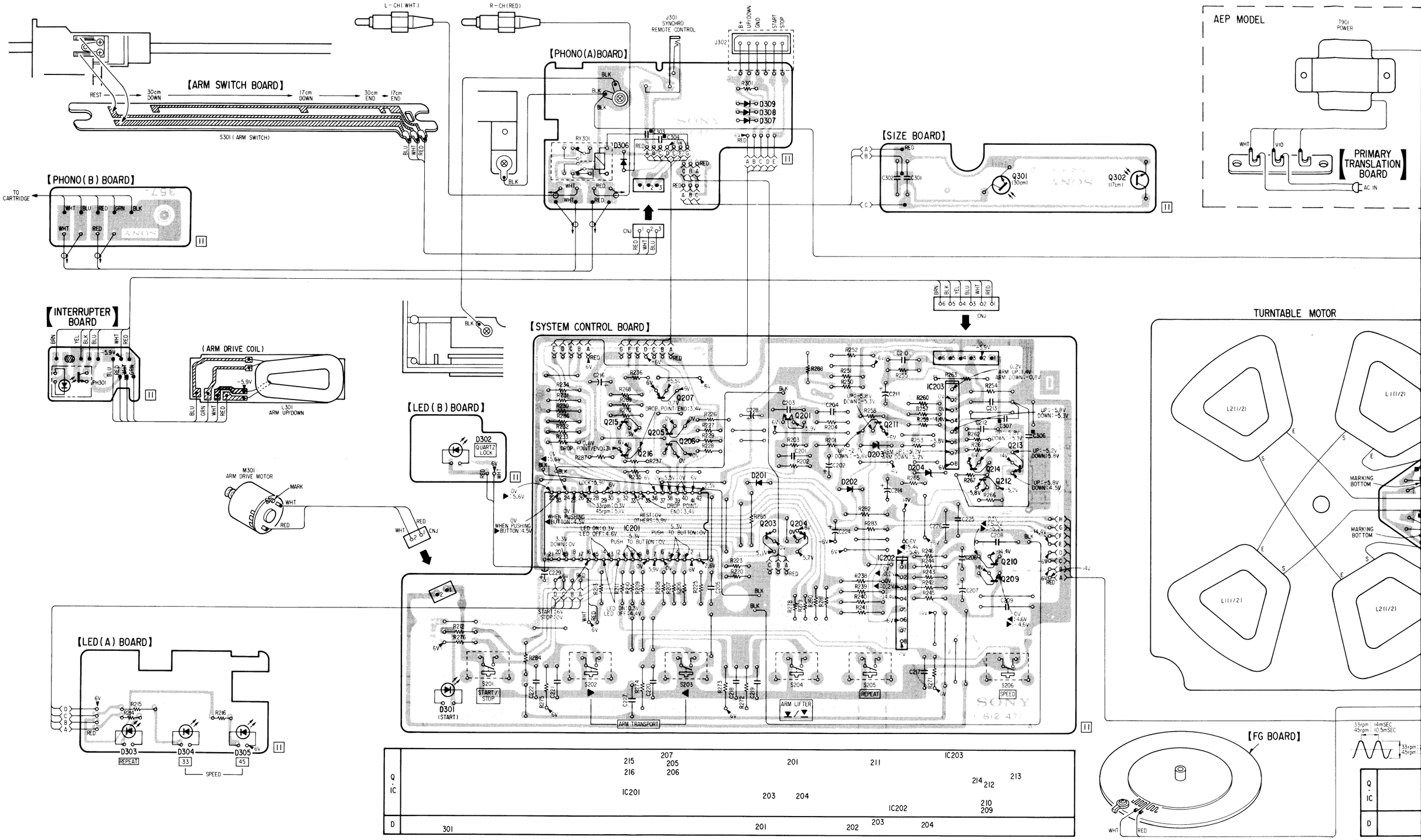




4-1. MOUNTING DIAGRAM

– Conductor Side –

See page 26 for Semiconductor Lead Layouts.



| | | |

7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23

A B C D E F G H I J

【PHONO(A)BOARD】

J301 SYNCHRO REMOTE CONTROL

J302 B+ UP/DOWN GND START STOP

D309 D308 D307 D306

【SIZE BOARD】

Q301 (30cm) Q302 (17cm)

AEP MODEL

T901 POWER

WHT VIO AC IN

【PRIMARY TRANSLATION BOARD】

US, CANADIAN MODEL

T901 POWER

AC IN WHT ORG

【PRIMARY TRANSLATION BOARD】

E MODEL

T901 POWER

S902 (VOLTAGE SELCTOR) 110 — 120V → 220 — 240V

BLU ORG BLU WHT GRY BLU BLU RED AC IN

【PRIMARY TRANSLATION BOARD】

CNJ RED WHT BLU

BRN BLK YEL BLU WHT RED CNJ

【EM CONTROL BOARD】

Q207 Q215 Q205 Q206 Q216 Q201 Q203 Q204 Q211 Q213 Q214 Q212 Q210 Q209

IC201 IC202 IC203

D201 D202 D204

S202 S203 S204 S205 REPEAT S206 SPEED

ARM LIFTER ARM TRANSPORT

TURNTABLE MOTOR

L1(1/2) L2(1/2) L1(1/2) L2(1/2)

MARKING BOTTOM H101 SIDE

MARKING BOTTOM H102

【FG BOARD】

WHT RED

【SERVO AMP BOARD】

PL301 (SIZE)

CANADIAN, AEP MODEL

Q106 Q102 Q101 Q103 Q105 Q104

IC101 IC102 IC103

D102 D106 D107 D108

US, E MODEL

TP

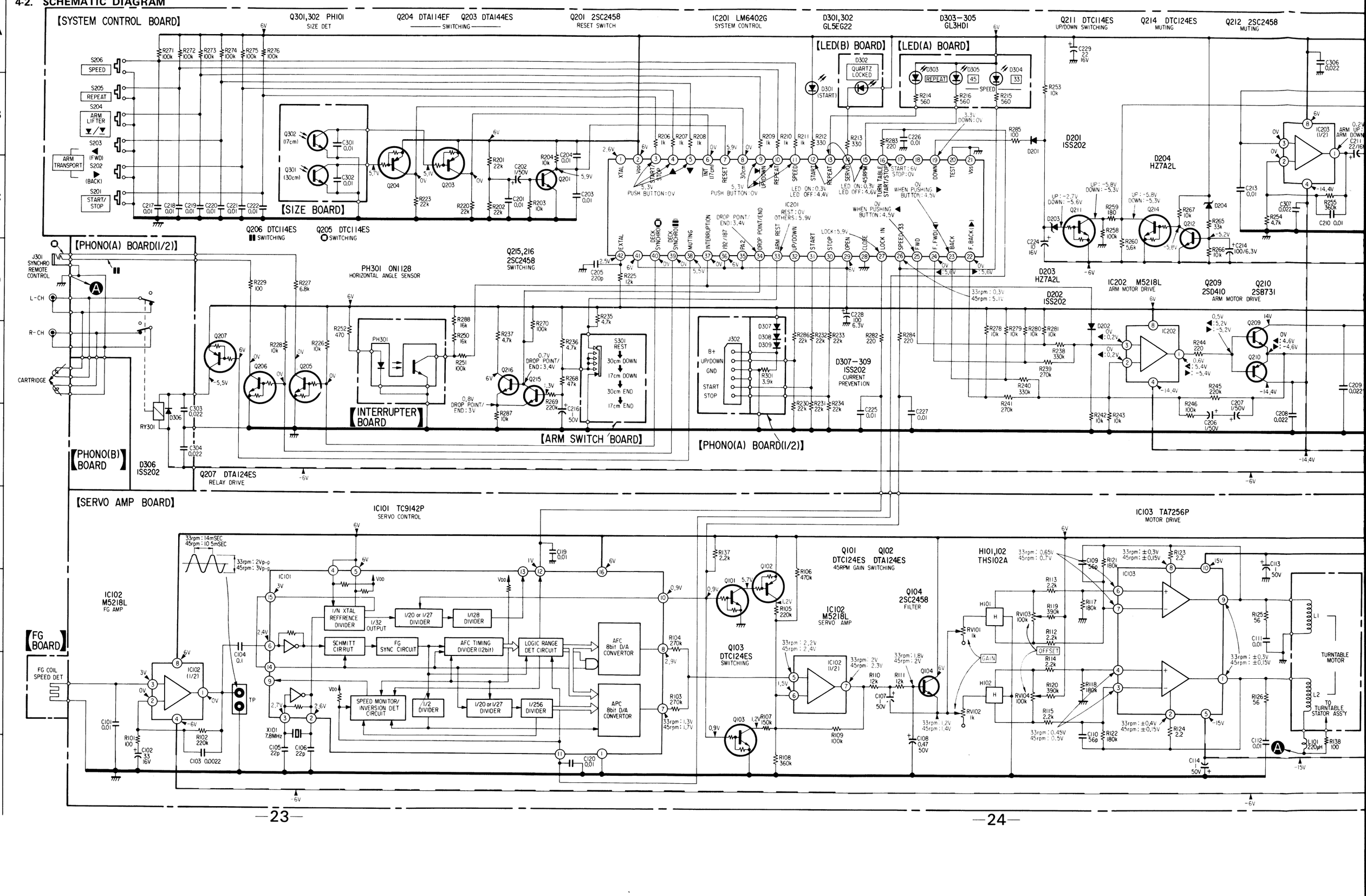
【POWER SW BOARD】

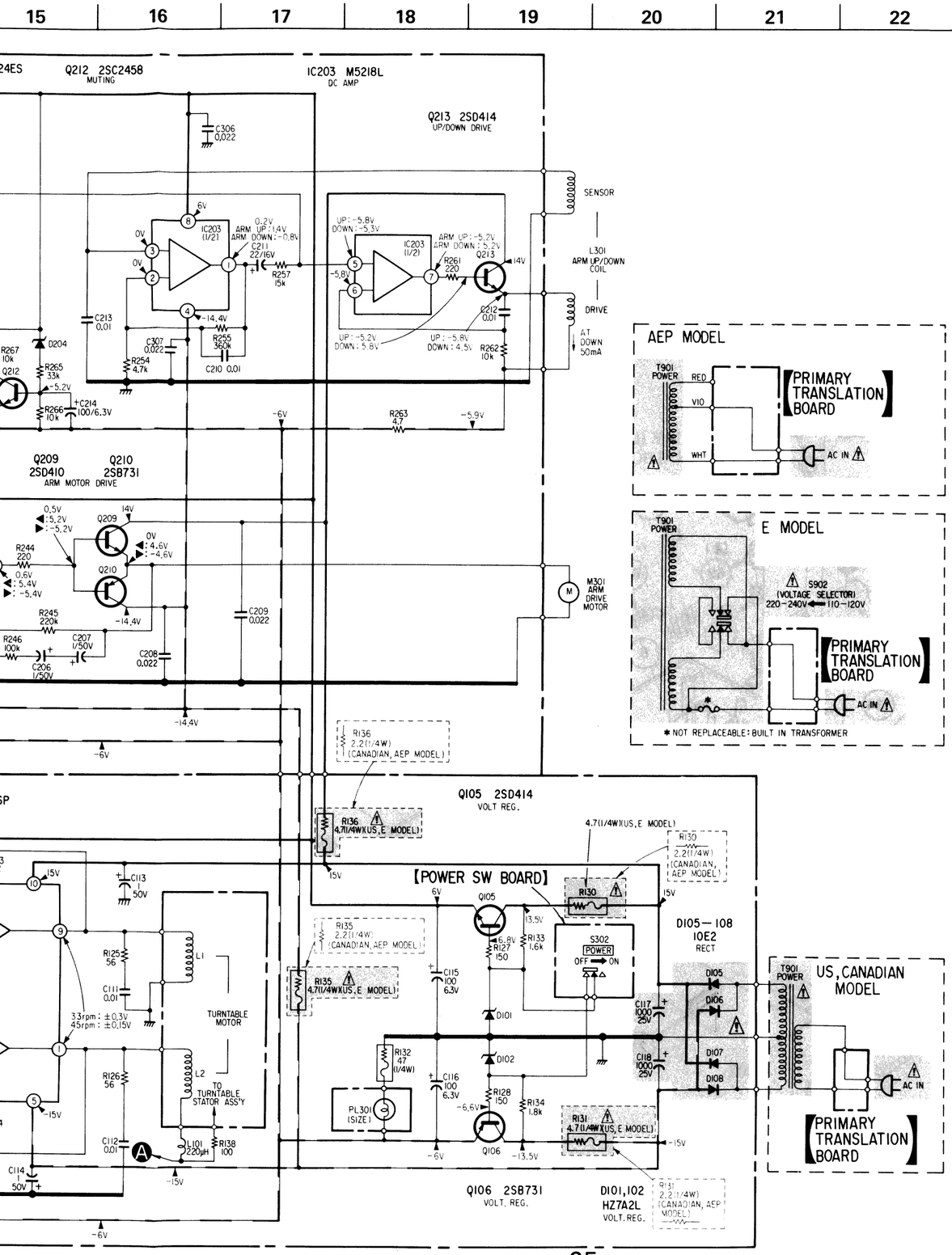
S302 POWER ON OFF

CANADIAN, AEP MODEL

Q · IC	106 IC103 104 IC101 105 IC102 102, 101 103
D	102 106, 105 108, 107 101

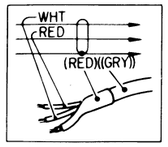
4-2. SCHEMATIC DIAGRAM


【SYSTEM CONTROL BOARD】
Q301,302 PH101
SIZE DET
Q204 DTA114EF Q203 DTA144ES
SWITCHING
Q201 2SC2458
RESET SWITCH
IC201 LM6402G
SYSTEM CONTROL
D301,302
GL5EG22
D303-305
GL3HD1
Q211 DTC114ES
UP/DOWN SWITCHING
Q214 DTC124ES
MUTING
Q212 2SC2458
MUTING
【LED(B) BOARD】
【LED(A) BOARD】
【SIZE BOARD】
【PHONO(A) BOARD(1/2)】
【PHONO(B) BOARD】
【INTERRUPTER BOARD】
【ARM SWITCH BOARD】
【SERVO AMP BOARD】
【FG BOARD】
Q206 DTC114ES
SWITCHING
Q205 DTC114ES
SWITCHING
Q215,216
2SC2458
SWITCHING
PH301 ON1128
HORIZONTAL ANGLE SENSOR
D201
ISS202
D204
HZ7A2L
D203
HZ7A2L
D202
ISS202
IC202 M5218L
ARM MOTOR DRIVE
Q209 2SD410
Q210 2SB731
ARM MOTOR DRIVE
D306
ISS202
Q207 DTA124ES
RELAY DRIVE
D307-309
ISS202
CURRENT PREVENTION
IC101 TC9142P
SERVO CONTROL
IC102
M5218L
FG AMP
IC103 TA7256P
MOTOR DRIVE
Q101 Q102
DTC124ES DTA124ES
45RPM GAIN SWITCHING
Q103
DTC124ES
SWITCHING
Q104
2SC2458
FILTER
IC102
M5218L
SERVO AMP
H101,102
THS102A
TURNTABLE MOTOR
TO TURNTABLE STATOR ASS'Y
S206 SPEED
S205 REPEAT
S204 ARM LIFTER
S203 (FWD)
S202 (BACK)
S201 START/STOP
ARM TRANSPORT
J301 SYNCHRO REMOTE CONTROL
L-CH
R-CH
CARTRIDGE
J302
B+
UP/DOWN
GND
START
STOP
S301 REST
30cm DOWN
17cm DOWN
30cm END
17cm END
FG COIL SPEED DET
TP
X101 7.8MHz
I/N XTAL REFFRENCE DIVIDER
1/32 OUTPUT
1/20 or 1/27 DIVIDER
1/128 DIVIDER
SCHMITT CIRRUT
FG SYNC CIRCUIT
AFC TIMING DIVIDER (12bit)
LOGIC RANGE DET CIRCUIT
AFC 8bit D/A CONVERTOR
APC 8bit D/A CONVERTOR
SPEED MONITOR/ INVERSION DET CIRCUIT
1/2 DIVIDER
1/20 or 1/27 DIVIDER
1/256 DIVIDER
33rpm : 14mSEC
45rpm : 10.5mSEC
33rpm : 2Vp-p
45rpm : 3Vp-p
33rpm : 0.3V
45rpm : 5.1V
33rpm : 1.3V
45rpm : 1.7V
33rpm : 2.2V
45rpm : 2.4V
33rpm : 2V
45rpm : 2.3V
33rpm : 1.8V
45rpm : 2V
33rpm : 1.2V
45rpm : 1.4V
33rpm : 0.65V
45rpm : 0.7V
33rpm : ±0.3V
45rpm : ±0.15V
33rpm : 0.45V
45rpm : 0.5V
33rpm : ±0.4V
45rpm : ±0.15V
PUSH BUTTON : 0V
LED ON : 0.3V
LED OFF : 4.4V
LED ON : 0.3V
LED OFF : 4.6V
WHEN PUSHING BUTTON : 4.5V
WHEN PUSHING BUTTON : 4.5V
DROP POINT/ END : 3.4V
0.7V
DROP POINT/ END : 3.4V
0.8V
DROP POINT/ END : 3V
IC201 REST : 0V OTHERS : 5.9V
LOCK : 5.9V
UP : -2.7V DOWN : -5.6V
UP : -5.8V DOWN : -5.3V
UP : -5.8V DOWN : -5.3V
-5.8V
33rpm : 33V
45rpm : 5.1V
-5.5V
-5.6V
-5.6V
-6V
-14.4V
-15V
-15V
-14.4V
-14.4V
-14.4V
-6V
-6V
-6



Note for MOUNTING DIAGRAM:

- Color code of sleeving over the end of the jacket.



- ⌒ : parts extracted from the component side.
- ⌒ : parts extracted from the conductor side.
- ■ : part mounted on the conductor side.
- : B + pattern

Note for SCHEMATIC DIAGRAM:

- All capacitors are in μF unless otherwise noted. pF: μμF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in ohms, 1/6 W unless otherwise noted. kΩ : 1000 Ω, MΩ : 1000 kΩ
- : fusible resistor.
- : transistor with resistor
- : adjustment for repair.
- : B+ bus.
- : B- bus.
- Readings are taken under no-signal conditions with a VOM (50 kΩ/V).
- Voltage variations may be noted due to normal production tolerances.
- Switches

Ref. No.	Switch	Position
S201	START/STOP	OFF
S202	ARM TRANSPORT ▶	OFF
S203	ARM TRANSPORT ◀	OFF
S204	ARM LIFTER	OFF
S205	REPEAT	OFF
S206	SPEED	OFF
S301	Arm Position Det.	REST
S302	POWER	OFF

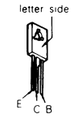
Note: Voltages are measured with a VOM (50kΩ/V).

Note: The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Note: Les composants identifiés par une trame et une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

• Semiconductor Lead Layouts

2SB731
2SD809

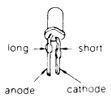


2SC2458
DTA114ES
DTA124ES
DTA144ES
DTC124ES

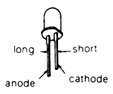
PH101

10E2
1SS202-1
RD6.8JN1

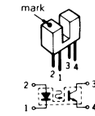
GL-3HD1



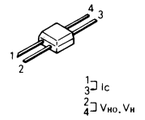
GL-5EG22



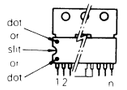
ON1128



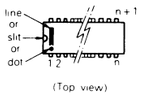
TH102A
THS102A



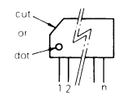
TA7256P



TC9142P
LM6402G-356



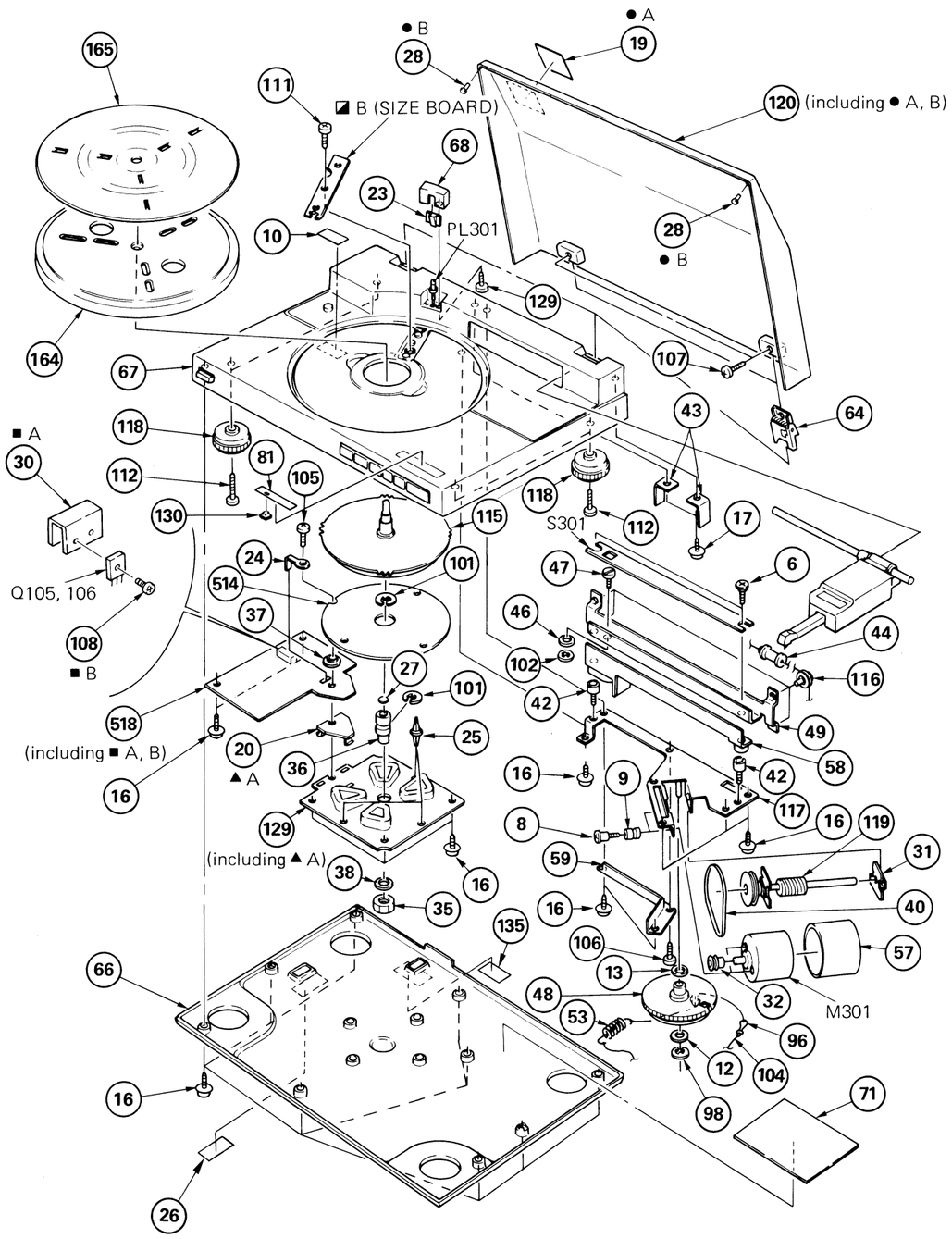
M5218L



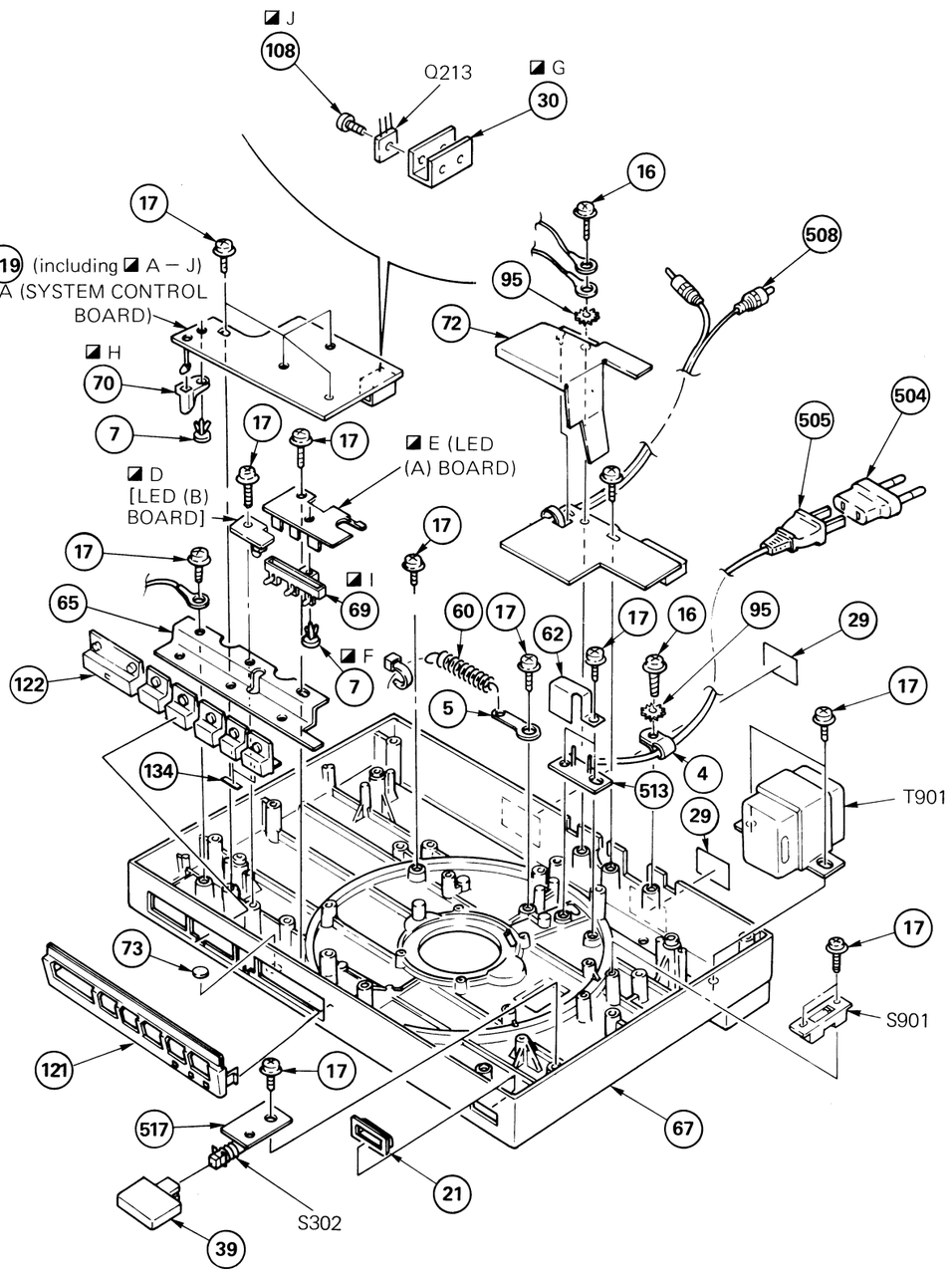
SECTION 5

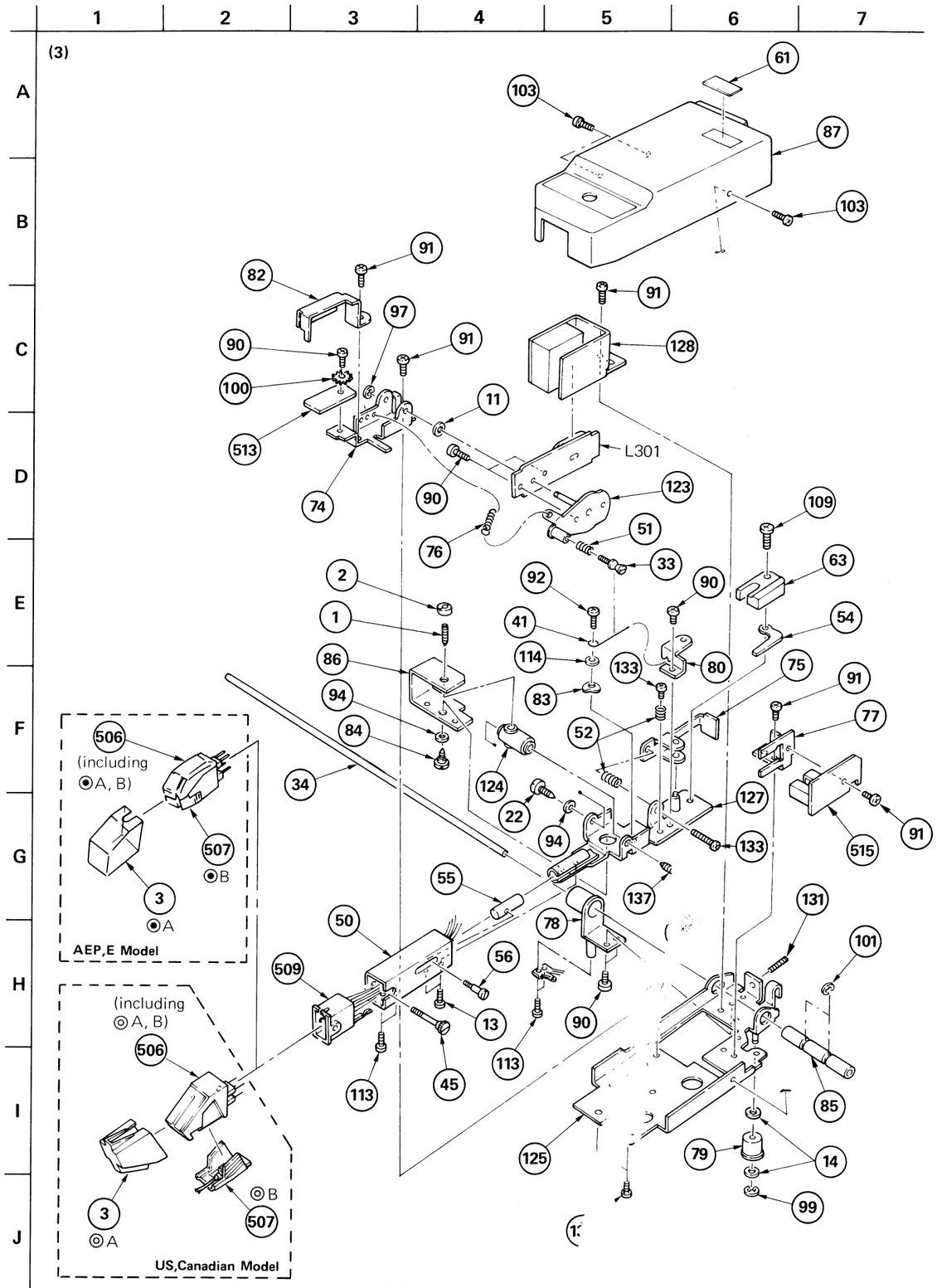
EXPLODED VIEWS AND PARTS LIST

(1)



(2)





GENERAL SECTION

No.	Part No.	Description
1	2-203-518-71	SCREW, PIVOT
2	2-203-519-00	NUT (A), LOCK, PIVOT
3	2-231-824-01	(AEP,E).....COVER, STYLUS
3	4-903-347-01	(Canadian,PS-LX510C)...COVER, STYLUS
4 ♦	3-001-707-01	HOLDER, WIRE
5	3-460-077-00	CLAMP, WIRE
6 ♦	3-465-048-00	SHAFT
7 ♦	3-531-576-31	RIVET (DIA. 3), NYLON
8	3-570-027-00	SCREW, MOTOR
9	3-570-118-00	CUSHION, MOTOR
10	3-701-030-00	LABEL, SERIAL NUMBER
11	3-701-437-21	WASHER, PLASTIC, 2 (t=0.5)
12	3-701-441-01	WASHER
13	3-701-441-21	WASHER
14	3-701-443-11	WASHER, PLASTIC, 5 (t=0.25)
15	3-703-043-21	(Canadian)...LABEL, CAUTION, MAIN
16	3-703-136-00	SCREW, PTPWH 3X12
17	3-703-137-00	SCREW, PTPWH 3X10
18	3-703-677-00	(US)...LABEL, CAUTION, MAIN;NEW UL
19	3-703-705-01	STICKER, SONY SYMBOL (30)
20	4-857-642-00	HOLDER, PC BOARD
21	4-875-501-00	GUIDE, POWER KNOB
22	4-877-816-00	SHAFT, PIVOT
23	4-879-741-00	WINDOW, LAMP
24 ♦	4-881-629-00	PLATE (A), GROUND
25	4-881-636-11	SUPPORT (TMD), PC
26 ♦	4-881-683-00	(E)....LABEL, VOLTAGE
27	4-885-135-00	RETAINER, THRUST
28	4-885-183-00	CUSHION (D)
29	4-885-432-01	(AEP).....LABEL, MODEL NUMBER
29	4-887-430-01	(Canadian,US)...LABEL, MODEL NUMBER
29	4-887-434-01	(E).....LABEL, MODEL NUMBER
29	4-887-459-01	(G-AEP).....LABEL, MODEL NUMBER
30 ♦	4-885-562-11	HEAT SINK
31	4-885-703-00	GUIDE, WORM SHAFT
32	4-885-704-03	PULLEY, MOTOR
33	4-885-706-04	SCREW, ADJUSTMENT, POSITION
34	4-885-709-00	BAR, GUIDE
35	4-885-723-00	NUT, BEARING
36	4-885-724-00	BEARING
37	4-885-727-00	SPACER
38	4-885-728-00	PACKING
39	4-885-734-00	(SILVER)...BUTTON, POWER
39	4-885-734-12	(BLACK)....BUTTON, POWER
40	4-885-735-00	BELT, DRIVING
41	4-885-737-00	WIRE

GENERAL SECTION

No.	Part No.	Description
42	4-885-741-00	SPACER
43 ♦	4-885-742-00	BRACKET, GUIDE
44	4-885-744-00	STOPPER, WIRE
45	4-885-746-00	SCREW, FITTING, CARTRIDGE
46	4-885-747-00	WASHER (H)
47	4-885-748-00	PIN, ADJUSTMENT
48	4-885-749-00	WHEEL, WORM
49 ♦	4-885-750-00	GUIDE, ROLLER
50	4-885-760-00	PIPE, ARM
51	4-885-764-02	SPRING, COMPRESSION
52	4-885-766-00	SPRING, COMPRESSION
53	4-885-767-00	SPRING, TENSION
54	4-885-768-00	WEIGHT (2)
55	4-885-770-00	WEIGHT, ADJUSTMENT
56	4-885-771-00	SCREW, ADJUSTMENT
57	4-885-775-00	CAP, MOTOR
58	4-885-777-00	(SILVER)...ESCUTCHEON, ROLLER GUIDE
58	4-885-777-11	(BLACK)....ESCUTCHEON, ROLLER GUIDE
59 ♦	4-885-787-00	GUIDE, LEAD WIRE
60	4-885-789-00	SPRING, TENSION
61 ♦	4-885-792-00	PLUG IN SEAL (A)
62 ♦	4-885-798-00	COVER, POWER
63 ♦	4-887-310-00	WEIGHT (A)
64	4-887-404-00	(SILVER)...HINGE
64	4-887-404-11	(BLACK)....HINGE
65 ♦	4-887-406-00	RETAINER, BUTTON, CONTROL
66 ♦	4-887-410-00	(AEP).....PLATE, BOTTOM
66 ♦	4-887-410-11	(Canadian,US)...PLATE, BOTTOM
66	4-887-410-21	(E).....PLATE, BOTTOM
67	4-887-411-21	(SILVER)...FRAME, POWER DISPLAY ON/OFF
67	4-887-411-31	(SILVER)...FRAME, POWER DISPLAY ON/STANDBY
67	4-887-411-41	(BLACK)....FRAME, POWER DISPLAY ON/OFF
67	4-887-411-51	(BLACK)....FRAME, POWER DISPLAY ON/STANDBY
68	4-887-412-21	(SILVER)...HOLDER, LAMP
68	4-887-412-11	(BLACK)....HOLDER, LAMP
69 ♦	4-887-414-00	HOLDER (A), LED
70 ♦	4-887-415-00	HOLDER (B), LED
71	.....	
72 ♦	4-887-426-00	PLATE, SHIELD
73	4-887-429-00	SPACER
74 ♦	4-887-437-01	BASE, LIFTER
75 ♦	4-887-438-01	PLATE, ADJUSTMENT
76	4-887-439-01	SPRING, TENSION
77 ♦	4-887-440-01	BRACKET, SENSOR
78	4-887-442-01	BASE, SWITCH

NOTE:

- The mechanical parts with no reference number in the exploded views are not supplied.
- Items marked " ♦ " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- Due to standardization, parts with part numbers (Δ-ΔΔΔ-ΔΔΔ-XX or Δ-ΔΔΔΔ-ΔΔΔ-X) may be different from those used in the set.
- If there are two or more same circuits in a set such as a stereophonic machine, only typical circuit parts may be indicated and capacitors and resistors in other same circuits may be omitted.

CAPACITORS:

- All capacitors are in μF. Common capacitors are omitted. Refer to the following lists for their part numbers. MF:μF, PF:μμF.

COILS

- MMH : mH, UH : μH

SEMICONDUCTORS

In each case, U : μ, for example:
UA···: μA···, UPA···: μPA···, UPC···: μPC, UPD···: μPD···

GENERAL SECTION

No.	Part No.	Description
79	4-887-443-01	ROLLER, GUIDE
80 ♦	4-887-444-01	RETAINER, WIRE
81	4-887-445-01	LABEL (B), PANEL
82 ♦	4-887-446-01	PLATE, SHIELD
83	4-887-448-01	WASHER (A)
84	4-887-449-01	SHAFT, PIVOT
85 ♦	4-887-451-01	SLIDER
86	4-887-454-01	BRIDGE, ARM
87	4-887-456-21	COVER, ARM
88	7-621-255-10	SCREW +P 2X3
89	7-621-735-09	SET-SCT, HEX. 2.6X4
90	7-621-772-00	SCREW +B 2X3
91	7-621-775-00	SCREW +B 2.6X3
92	7-621-775-20	SCREW +B 2.6X5
93	7-621-775-40	SCREW +B 2.6X8
94	7-623-208-22	SW 3, TYPE 2
95	7-623-422-07	LW 3, TYPE B
96	7-623-616-01	EYELET, 2X3
97	7-624-102-04	STOP RING 1.5, TYPE -E
98	7-624-106-04	STOP RING 3.0, TYPE -E
99	7-624-108-04	STOP RING 4.0, TYPE -E
100	7-623-420-07	LW2
101	7-624-133-94	STOP RING 15, TYPE-CE
102	7-624-190-81	STOP RING 2, TYPE-CS
103	7-627-553-37	SCREW, PRECISION +P 2X3
104	9-911-825-42	CORD, TETRON DIAL (0.5MM)
105	7-682-149-13	SCREW +P 3X10
106	7-682-545-04	SCREW +B 3X4
107	7-682-547-04	SCREW +B 3X6
108	7-682-547-09	SCREW +B 3X6
109	7-682-548-09	SCREW +B 3X8
110	7-685-134-14	SCREW +P 2.6X8 TYPE2 NON-SLIT
111	7-685-147-21	SCREW +P 3X10 TYPE2 SLIT
112	7-685-650-21	SCREW +BVTP 3X16 TYPE2 SLIT
113	7-685-799-04	SCREW +PTT 1.7X2.5
114	7-688-002-01	W 2.6, SMALL
115	A-4608-232-A	ROTOR ASSY
116	X-4856-325-0	PULLEY ASSY
117	X-4885-702-0	BRACKET ASSY, MOTOR
118	X-4885-704-3	INSULATOR ASSY
119	X-4885-710-0	WORM ASSY
120	X-4887-402-0	COVER ASSY, DUST
121	X-4887-403-0	(SILVER)...PANEL ASSY, SUB
121	X-4887-403-2	(BLACK)....PANEL ASSY, SUB

GENERAL SECTION

No.	Part No.	Description
122	X-4887-404-0	BUTTON ASSY, CONTROL
123 ♦	X-4887-409-1	LEVER ASSY, LIFTER
124	X-4887-411-1	BEARING ASSY, PIVOT
125 ♦	X-4887-412-	BASE ASSY, ARM
126	X-4887-413-1	STATOR ASSY
127	X-4887-414-1	JOINT ASSY, PIPE (WITH STYLUS PRESSURE GUIDE)
128	X-4887-415-1	MAGNET ASSY, ARM
129	7-685-135-11	SCREW +PTP 2.6X10
130	4-903-328-01	WINDOW, LED
131	7-621-735-09	SET-SCREW, WP, 2.6X4
132	7-623-553-37	SCREW +P 2X3
133	7-621-772-40	SCREW +B 2X8
134	3-831-441-XX	SPACER
135 ♦	3-703-845-01	(US,Canadian)...LABEL (N), CAUTION, MAIN
136 ♦	3-703-680-00	(US)....LABEL, CAUTION, SUB;NEW UL
137	2-203-518-61	SCREW, PIVOT

ACCESSORY & PACKING MATERIAL

No.	Part No.	Description
151	3-565-234-00	BAG, PROTECTION
152	3-701-616-00	(US)....BAG, POLYETHYLENE
153	3-701-630-00	BAG, POLYETHYLENE
154	3-701-634-00	BAG, POLYETHYLENE
155	3-701-806-00	ADAPTOR, 45, (E)
156	3-703-137-00	SCREW, TAPPING
157	3-773-819-11	(AEP,E).....MANUAL, INSTRUCTION
158	3-773-819-21	(Canadian,US)..MANUAL, INSTRUCTION;ENGLISH
159	3-773-819-31	(Canadian)...MANUAL, INSTRUCTION;FRENCH
160	3-773-819-41	(AEP)...MANUAL, INSTRUCTION;DUTCH/SWEDISH
161	3-795-753-21	(US).....INSTRUCTION
162	4-350-525-00	SHEET, PROTECTION
163	4-880-101-00	PLATE (B), PROTECTION
164	4-883-720-00	TURNTABLE
165	4-883-723-01	(AEP,E).....SHEET, TURNTABLE
165	4-883-723-11	(Canadian,US)....SHEET, TURNTABLE
166	4-885-779-00	BOLSTER, ARM
167	4-885-780-00	CUSHION, ARM
168	4-885-782-00	PROTECTOR (B)
169	4-887-309-11	LABEL (A), CAUTION
170	4-887-420-00	CUSHION (RIGHT)
171	4-887-421-00	CUSHION (LEFT)
172	4-887-423-00	HOLDER, TURNTABLE
173	4-887-441-01	COVER, ARM LOCK
174	4-887-458-01	(PS-LX510)....INDIVIDUAL CARTON
175	4-887-460-01	(PS-LX510C)...INDIVIDUAL CARTON

NOTE:
- The mechanical parts with no reference number in the exploded views are not supplied.
- Items marked " ♦ " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- Due to standardization, parts with part numbers (Δ-ΔΔΔ-ΔΔΔ-XX or Δ-ΔΔΔΔ-ΔΔΔ-X) may be different from those used in the set.
- If there are two or more same circuits in a set such as a stereophonic machine, only typical circuit parts may be indicated and capacitors and resistors in other same circuits may be omitted.

CAPACITORS:
- All capacitors are in μF. Common capacitors are omitted. Refer to the following lists for their part numbers. MF:μF, PF:μμF.

COILS
- MMH : mH, UH : μH

SEMICONDUCTORS
In each case, U : μ, for example:
UA···: μA···, UPA···: μPA···, UPC···: μPC, UPD···: μPD···

ELECTRICAL PARTS

Ref.No.	Part No.	Description
501 ♦	1-508-802-00	BASE POST U TYPE
502 ♦	1-508-878-00	BASE POST
503 ♦	1-508-880-00	BASE POST, MCD CONNECTOR 6P
504	1-526-565-00	(E).....AC PLUG ADAPTOR
505 ⚠	1-534-817-XX	(AEP).....CORD, POWER
505 ⚠	1-551-472-00	(E).....CORD, POWER
505 ⚠	1-551-506-XX	(Canadian,US)...CORD, POWER
506	1-549-117-00	(Canadian;PS-LX510C) ...CARTRIDGE(VL-45G)
506	A-4505-089-C	(AEP,E) ..CARTRIDGE COMPLETE ASSY (XL-250G)
507	1-549-118-11	(Canadian;PS-LX510C) ..STYLUS ASSY, ND-145G
507	A-4587-071-C	(AEP,E)...STYLUS ASSY, ND-250G
508	1-551-294-00	CORD
509	1-556-552-00	CONNECTOR (PLUG IN TYPE)
510 ♦	1-560-200-00	BASE POST, MCD CONNECTOR 2P
511 ♦	1-564-496-11	PIN, CONNECTOR 3P
512 ♦	1-564-501-11	PIN, CONNECTOR 8P
513 ♦	1-608-536-00	PC BOARD, PRIMARY TRANSLATION
514 ♦	1-608-883-00	PC BOARD, FG
515 ♦	1-612-356-11	PC BOARD, SENSOR
516 ♦	1-612-357-11	PC BOARD, PHONO (B)
517 ♦	1-612-470-11	PC BOARD, PUSH SWITCH
518 ♦	A-4619-241-A	(Canadian,AEP)...MOUNTED PCB, SERVO
518 ♦	A-4619-242-A	(E,US).....MOUNTED PCB, SERVO
519 ♦	A-4644-203-A	MOUNTED PCB, SYSTEM CONTROL

C101	1-162-113-00	CERAMIC	0.01MF	30%	16V
C102	1-123-318-00	ELECT	33MF	20%	16V
C103	1-162-111-00	CERAMIC	0.0022MF	30%	25V
C104	1-161-974-00	CERAMIC	0.1MF	0	16V
C105	1-162-052-00	CERAMIC	22PF	5%	50V
C106	1-162-052-00	CERAMIC	22PF	5%	50V
C107	1-123-380-00	ELECT	1MF	20%	50V
C108	1-123-379-00	ELECT	0.47MF	20%	50V
C109	1-162-031-00	CERAMIC	56PF	5%	50V
C110	1-162-031-00	CERAMIC	56PF	5%	50V
C111	1-162-113-00	CERAMIC	0.01MF	30%	16V
C112	1-162-113-00	CERAMIC	0.01MF	30%	16V
C113	1-123-380-00	ELECT	1MF	20%	50V
C114	1-123-380-00	ELECT	1MF	20%	50V
C115	1-123-295-00	ELECT	100MF	20%	6.3V
C116	1-123-295-00	ELECT	100MF	20%	6.3V
C117 ⚠	1-123-337-00	ELECT	1000MF	20%	25V
C118 ⚠	1-123-337-00	ELECT	1000MF	20%	25V
C119	1-130-483-00	MYLAR	0.01MF	5%	50V
C120	1-130-483-00	MYLAR	0.01MF	5%	50V
C201	1-162-113-00	CERAMIC	0.01MF	30%	16V

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
C202	1-123-380-00	ELECT	1MF	20%	50V
C203	1-162-113-00	CERAMIC	0.01MF	30%	16V
C204	1-162-113-00	CERAMIC	0.01MF	30%	16V
C205	1-162-102-00	CERAMIC	220PF	10%	50V
C206	1-123-380-00	ELECT	1MF	20%	50V
C207	1-123-380-00	ELECT	1MF	20%	50V
C208	1-161-494-00	CERAMIC	0.022MF	30%	25V
C209	1-161-494-00	CERAMIC	0.022MF	30%	25V
C210	1-162-113-00	CERAMIC	0.01MF	30%	16V
C211	1-123-330-00	ELECT	22MF	20%	16V
C212	1-162-113-00	CERAMIC	0.01MF	30%	16V
C213	1-162-113-00	CERAMIC	0.01MF	30%	16V
C214	1-123-295-00	ELECT	100MF	20%	6.3V
C216	1-123-380-00	ELECT	1MF	20%	50V
C217	1-162-113-00	CERAMIC	0.01MF	30%	16V
C218	1-162-113-00	CERAMIC	0.01MF	30%	16V
C219	1-162-113-00	CERAMIC	0.01MF	30%	16V
C220	1-162-113-00	CERAMIC	0.01MF	30%	16V
C221	1-162-113-00	CERAMIC	0.01MF	30%	16V
C222	1-162-113-00	CERAMIC	0.01MF	30%	16V
C224	1-123-356-00	ELECT	10MF	20%	16V
C225	1-162-113-00	CERAMIC	0.01MF	30%	16V
C226	1-162-113-00	CERAMIC	0.01MF	30%	16V
C227	1-162-113-00	CERAMIC	0.01MF	30%	16V
C228	1-123-295-00	ELECT	100MF	20%	6.3V
C229	1-123-330-00	ELECT	22MF	20%	16V
C301	1-162-113-00	CERAMIC	0.01MF	30%	16V
C302	1-162-113-00	CERAMIC	0.01MF	30%	16V
C303	1-161-494-00	CERAMIC	0.022MF	30%	25V
C304	1-161-494-00	CERAMIC	0.022MF	30%	25V
C306	1-161-494-00	CERAMIC	0.022MF	30%	25V
C307	1-161-494-00	CERAMIC	0.022MF	30%	25V
D101	8-719-103-36	DIODE RD6.8JN1			
D102	8-719-103-36	DIODE RD6.8JN1			
D105 ⚠	8-719-200-02	DIODE 10E-2			
D106 ⚠	8-719-200-02	DIODE 10E-2			
D107 ⚠	8-719-200-02	DIODE 10E-2			
D108 ⚠	8-719-200-02	DIODE 10E-2			
D201	8-719-107-94	DIODE 1SS202-1			
D202	8-719-107-94	DIODE 1SS202-1			
D203	8-719-103-36	DIODE RD6.8JN1			
D204	8-719-103-36	DIODE RD6.8JN1			
D301	8-719-907-36	DIODE GL-5EG22			
D302	8-719-907-36	DIODE GL-5EG22			

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- If there are two or more same circuits in a set such as a stereophonic machine, only typical circuit parts may be indicated and capacitors and resistors in other same circuits may be omitted.

CAPACITORS:
- All capacitors are in μF. Common capacitors are omitted. Refer to the following lists for their part numbers. MF:μF, PF:μμF.

COILS
- MMH : mH, UH : μH

SEMICONDUCTORS
In each case, U : μ, for example:
UA···: μA···, UPA···: μPA···, UPC···: μPC, UPD···: μPD···

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Les composants identifiés par une trame et une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

ELECTRICAL PARTS

Ref.No.	Part No.	Description
D303	8-719-904-31	DIODE GL-3HD1
D304	8-719-904-31	DIODE GL-3HD1
D305	8-719-904-31	DIODE GL-3HD1
D306	8-719-107-94	DIODE 1SS202-1
D307	8-719-107-94	DIODE 1SS202-1
D308	8-719-107-94	DIODE 1SS202-1
D309	8-719-107-94	DIODE 1SS202-1
H101	8-719-800-17	THS102A
H102	8-719-800-17	THS102A
IC101	8-759-201-58	IC TC9142P
IC102	8-759-600-02	IC M5218L
IC103	8-759-202-01	IC TA7256P
IC201	8-759-801-03	IC LM6402G-356
IC202	8-759-600-02	IC M5218L
IC203	8-759-600-02	IC M5218L
J301	1-507-813-00	JACK, SYNCHRO REMOTE CONTROL
J302 ♦	1-560-317-00	CONNECTOR PIN 6P, REMOTE
L101	1-408-579-00	MICRO INDUCTOR 220UH
L301	1-422-162-11	COIL, ARM UP/DOWN
M301	1-541-218-00	MOTOR, ARM DRIVE
PH301	8-719-411-28	ON1128
PL301	1-518-169-XX	LAMP, PILOT
Q101	8-719-900-36	TRANSISTOR DTC124ES
Q102	8-719-900-63	TRANSISTOR DTA124ES
Q103	8-719-900-36	TRANSISTOR DTC124ES
Q104	8-719-245-83	TRANSISTOR 2SC2458
Q105	8-719-180-93	TRANSISTOR 2SD809
Q106	8-719-173-13	TRANSISTOR 2SB731
Q201	8-719-245-83	TRANSISTOR 2SC2458
Q203	8-719-900-63	TRANSISTOR DTA144ES
Q204	8-719-900-61	TRANSISTOR DTA114ES
Q205	8-719-900-61	TRANSISTOR DTA114ES
Q206	8-719-900-61	TRANSISTOR DTA114ES
Q207	8-719-900-63	TRANSISTOR DTA124ES
Q209	8-719-180-93	TRANSISTOR 2SD809
Q210	8-719-173-12	TRANSISTOR 2SB731
Q211	8-719-900-61	TRANSISTOR DTA114ES
Q212	8-719-245-83	TRANSISTOR 2SC2458
Q213	8-719-180-93	TRANSISTOR 2SD809
Q214	8-719-900-63	TRANSISTOR DTA124ES
Q215	8-719-245-83	TRANSISTOR 2SC2458
Q216	8-719-245-83	TRANSISTOR 2SC2458
Q301	8-719-101-01	TRANSISTOR PH101
Q302	8-719-101-01	TRANSISTOR PH101

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
R101	1-247-807-00	CARBON	100	5%	1/6W
R102	1-247-887-00	CARBON	220K	5%	1/6W
R103	1-247-889-00	CARBON	270K	5%	1/6W
R104	1-247-889-00	CARBON	270K	5%	1/6W
R105	1-247-887-00	CARBON	220K	5%	1/6W
R106	1-247-895-00	CARBON	470K	5%	1/6W
R107	1-247-883-00	CARBON	150K	5%	1/6W
R108	1-247-892-00	CARBON	360K	5%	1/6W
R109	1-247-879-00	CARBON	100K	5%	1/6W
R110	1-247-857-00	CARBON	12K	5%	1/6W
R111	1-247-857-00	CARBON	12K	5%	1/6W
R112	1-247-839-00	CARBON	2.2K	5%	1/6W
R113	1-247-839-00	CARBON	2.2K	5%	1/6W
R114	1-247-839-00	CARBON	2.2K	5%	1/6W
R115	1-247-839-00	CARBON	2.2K	5%	1/6W
R117	1-247-885-00	CARBON	180K	5%	1/6W
R118	1-247-885-00	CARBON	180K	5%	1/6W
R119	1-247-893-00	CARBON	390K	5%	1/6W
R120	1-247-893-00	CARBON	390K	5%	1/6W
R121	1-247-885-00	CARBON	180K	5%	1/6W
R122	1-247-885-00	CARBON	180K	5%	1/6W
R123	1-247-767-00	CARBON	2.2	5%	1/6W
R124	1-247-767-00	CARBON	2.2	5%	1/6W
R125	1-247-801-00	CARBON	56	5%	1/6W
R126	1-247-801-00	CARBON	56	5%	1/6W
R127	1-247-811-00	CARBON	150	5%	1/6W
R128	1-247-811-00	CARBON	150	5%	1/6W
R130	1-202-850-00	(Canadian,AEP)...COMPOSITION	2.2		1/4W
R130 ⚠	1-212-849-00	(US,E)...FUSIBLE	4.7	5%	1/4W F
R131	1-202-850-00	(Canadian,AEP)...COMPOSITION	2.2		1/4W
R131 ⚠	1-212-849-00	(US,E)...FUSIBLE	4.7	5%	1/4W F
R132	1-217-395-00	FUSIBLE	47	5%	1/4W F
R133	1-247-836-00	CARBON	1.6K	5%	1/6W
R134	1-247-837-00	CARBON	1.8K	5%	1/6W
R135	1-202-850-00	(Canadian,AEP)...COMPOSITION	2.2		1/4W
R135 ⚠	1-212-849-00	(US,E)...FUSIBLE	4.7	5%	1/4W F
R136	1-202-850-00	(Canadian,AEP)...COMPOSITION	2.2		1/4W
R136 ⚠	1-212-849-00	(US,E)...FUSIBLE	4.7	5%	1/4W F
R137	1-247-839-00	CARBON	2.2K	5%	1/6W
R138	1-247-807-00	CARBON	100	5%	1/6W
R201	1-247-863-00	CARBON	22K	5%	1/6W
R202	1-247-863-00	CARBON	22K	5%	1/6W
R203	1-247-855-00	CARBON	10K	5%	1/6W
R204	1-247-855-00	CARBON	10K	5%	1/6W

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
R206	1-247-831-00	CARBON	1K	5%	1/6W
R207	1-247-831-00	CARBON	1K	5%	1/6W
R208	1-247-831-00	CARBON	1K	5%	1/6W
R209	1-247-831-00	CARBON	1K	5%	1/6W
R210	1-247-831-00	CARBON	1K	5%	1/6W
R211	1-247-831-00	CARBON	1K	5%	1/6W
R212	1-247-819-00	CARBON	330	5%	1/6W
R213	1-247-819-00	CARBON	330	5%	1/6W
R214	1-247-825-00	CARBON	560	5%	1/6W
R215	1-247-825-00	CARBON	560	5%	1/6W
R216	1-247-825-00	CARBON	560	5%	1/6W
R220	1-247-863-00	CARBON	22K	5%	1/6W
R223	1-247-863-00	CARBON	22K	5%	1/6W
R225	1-247-857-00	CARBON	12K	5%	1/6W
R226	1-247-855-00	CARBON	10K	5%	1/6W
R227	1-247-851-00	CARBON	6.8K	5%	1/6W
R228	1-247-855-00	CARBON	10K	5%	1/6W
R229	1-247-807-00	CARBON	100	5%	1/6W
R230	1-247-863-00	CARBON	22K	5%	1/6W
R231	1-247-863-00	CARBON	22K	5%	1/6W
R232	1-247-863-00	CARBON	22K	5%	1/6W
R233	1-247-863-00	CARBON	22K	5%	1/6W
R234	1-247-863-00	CARBON	22K	5%	1/6W
R235	1-247-847-00	CARBON	4.7K	5%	1/6W
R236	1-247-847-00	CARBON	4.7K	5%	1/6W
R237	1-247-847-00	CARBON	4.7K	5%	1/6W
R238	1-247-891-00	CARBON	330K	5%	1/6W
R239	1-247-889-00	CARBON	270K	5%	1/6W
R240	1-247-891-00	CARBON	330K	5%	1/6W
R241	1-247-889-00	CARBON	270K	5%	1/6W
R242	1-247-855-00	CARBON	10K	5%	1/6W
R243	1-247-855-00	CARBON	10K	5%	1/6W
R244	1-247-815-00	CARBON	220	5%	1/6W
R245	1-247-887-00	CARBON	220K	5%	1/6W
R246	1-247-879-00	CARBON	100K	5%	1/6W
R250	1-247-860-00	CARBON	16K	5%	1/6W
R251	1-247-879-00	CARBON	100K	5%	1/6W
R252	1-247-823-00	CARBON	470	5%	1/6W
R253	1-247-855-00	CARBON	10K	5%	1/6W
R254	1-247-847-00	CARBON	4.7K	5%	1/6W
R255	1-247-892-00	CARBON	360K	5%	1/6W
R257	1-247-859-00	CARBON	15K	5%	1/6W
R258	1-247-879-00	CARBON	100K	5%	1/6W
R259	1-247-813-00	CARBON	180	5%	1/6W
R260	1-247-849-00	CARBON	5.6K	5%	1/6W

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
R261	1-247-815-00	CARBON	220	5%	1/6W
R262	1-247-855-00	CARBON	10K	5%	1/6W
R263	1-247-775-00	CARBON	4.7	5%	1/6W
R265	1-247-867-00	CARBON	33K	5%	1/6W
R266	1-247-855-00	CARBON	10K	5%	1/6W
R267	1-247-855-00	CARBON	10K	5%	1/6W
R268	1-247-871-00	CARBON	47K	5%	1/6W
R269	1-247-887-00	CARBON	220K	5%	1/6W
R270	1-247-879-00	CARBON	100K	5%	1/6W
R271	1-247-879-00	CARBON	100K	5%	1/6W
R272	1-247-879-00	CARBON	100K	5%	1/6W
R273	1-247-879-00	CARBON	100K	5%	1/6W
R274	1-247-879-00	CARBON	100K	5%	1/6W
R275	1-247-879-00	CARBON	100K	5%	1/6W
R276	1-247-879-00	CARBON	100K	5%	1/6W
R278	1-247-855-00	CARBON	10K	5%	1/6W
R279	1-247-855-00	CARBON	10K	5%	1/6W
R280	1-247-855-00	CARBON	10K	5%	1/6W
R281	1-247-855-00	CARBON	10K	5%	1/6W
R282	1-247-815-00	CARBON	220	5%	1/6W
R283	1-247-815-00	CARBON	220	5%	1/6W
R284	1-247-815-00	CARBON	220	5%	1/6W
R285	1-247-807-00	CARBON	100	5%	1/6W
R286	1-247-863-00	CARBON	22K	5%	1/6W
R287	1-247-855-00	CARBON	10K	5%	1/6W
R288	1-247-860-00	CARBON	16K	5%	1/6W
R301	1-247-845-00	CARBON	3.9K	5%	1/6W
RV101	1-226-233-00	RES, ADJ, CARBON 1K			
RV102	1-226-233-00	RES, ADJ, CARBON 1K			
RV103	1-226-239-00	RES, ADJ, CARBON 100K			
RV104	1-226-239-00	RES, ADJ, CARBON 100K			
RY301	1-515-519-00	RELAY			
S201	1-553-976-00	SWITCH, PUSH, START/STOP			
S202	1-553-976-00	SWITCH, PUSH, ARM TRANSPORT (FWD)			
S203	1-553-976-00	SWITCH, PUSH, ARM TRANSPORT (BACK)			
S204	1-553-976-00	SWITCH, PUSH, ARM LIFTER			
S205	1-553-976-00	SWITCH, PUSH, REPEAT			
S206	1-553-976-00	SWITCH, PUSH, SPEED			
S301	1-554-817-11	SWITCH			
S302	1-553-331-21	SWITCH, PUSH, POWER			
S902 ⚠	1-552-535-00	(E)...SWITCH, POWER & VOLTAGE CHANGE			
T901 ⚠	1-447-515-00	(Canadian,US)...TRANSFORMER, POWER			
T901 ⚠	1-447-516-00	(AEP).....TRANSFORMER, POWER			
T901 ⚠	1-447-517-21	(E).....TRANSFORMER, POWER			
X101	1-567-259-11	VIBRATOR, CRYSTAL			

NOTE:
- The mechanical parts with no reference number in the exploded views are not supplied.
- Items marked " ♦ " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- Due to standardization, parts with part numbers (Δ-ΔΔΔ-ΔΔΔ-XX or Δ-ΔΔΔΔ-ΔΔΔ-X) may be different from those used in the set.
- If there are two or more same circuits in a set such as a stereophonic machine, only typical circuit parts may be indicated and capacitors and resistors in other same circuits may be omitted.

CAPACITORS:
- All capacitors are in μF. Common capacitors are omitted. Refer to the following lists for their part numbers. MF:μF, PF:μμF.

COILS
- MMH : mH, UH : μH

SEMICONDUCTORS
In each case, U : μ, for example:
UA···: μA···, UPA···: μPA···, UPC···: μPC, UPD···: μPD···

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Les composants identifiés par une trame et une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

NOTE:
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